

STORM DATA



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NATIONAL CLIMATIC DATA CENTER, ASHEVILLE NORTH CAROLINA"
28801

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C O N T E N T S

Cover: A double bolt, cloud to ground lightning strike illuminates the sky over Harrison High School in Harrison, New York on the evening of May 30, 1988. ---Photo by Jack "Thunderhead" Corso, Harrison, New York; copyright 1988.

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The section on Outstanding Storms of the Month is prepared by Professor T. Theodore Fujita, editor, and Duane J. Stiegler, associate editor, the University of Chicago, with funding by the U. S. Office of Naval Research. The Storm Data and Unusual Weather Phenomena narratives, and summaries of Hurricanes/Tropical Storms are prepared by the National Weather Service. The National Climatic Data Center compiles statistics on deaths, injuries, damage and prepares the annual summaries of tornadoes and Lightning. This publication contains our best information on storms, but due to the difficulties inherent in collection of this type of data it is not all-inclusive. Late reports and corrections will be carried quarterly. Maps of zones used in the Storm Data and Unusual Weather Phenomena will be published in all editions.

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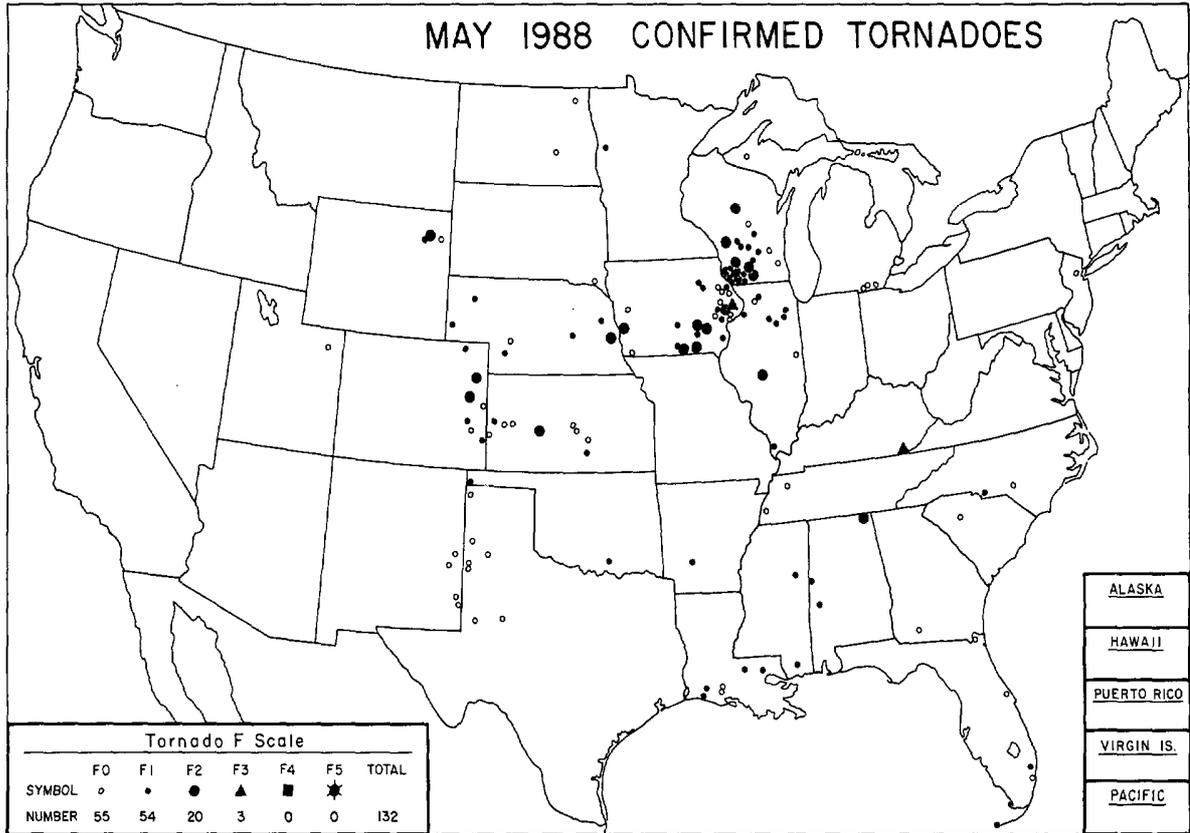
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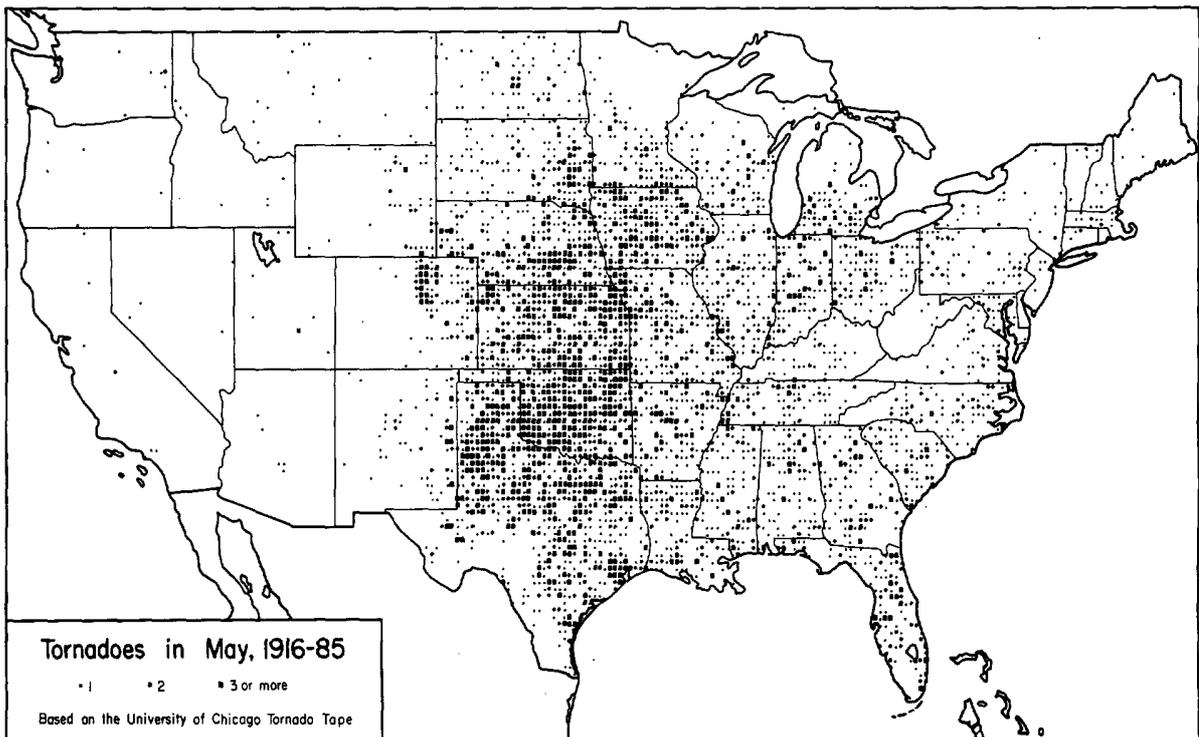
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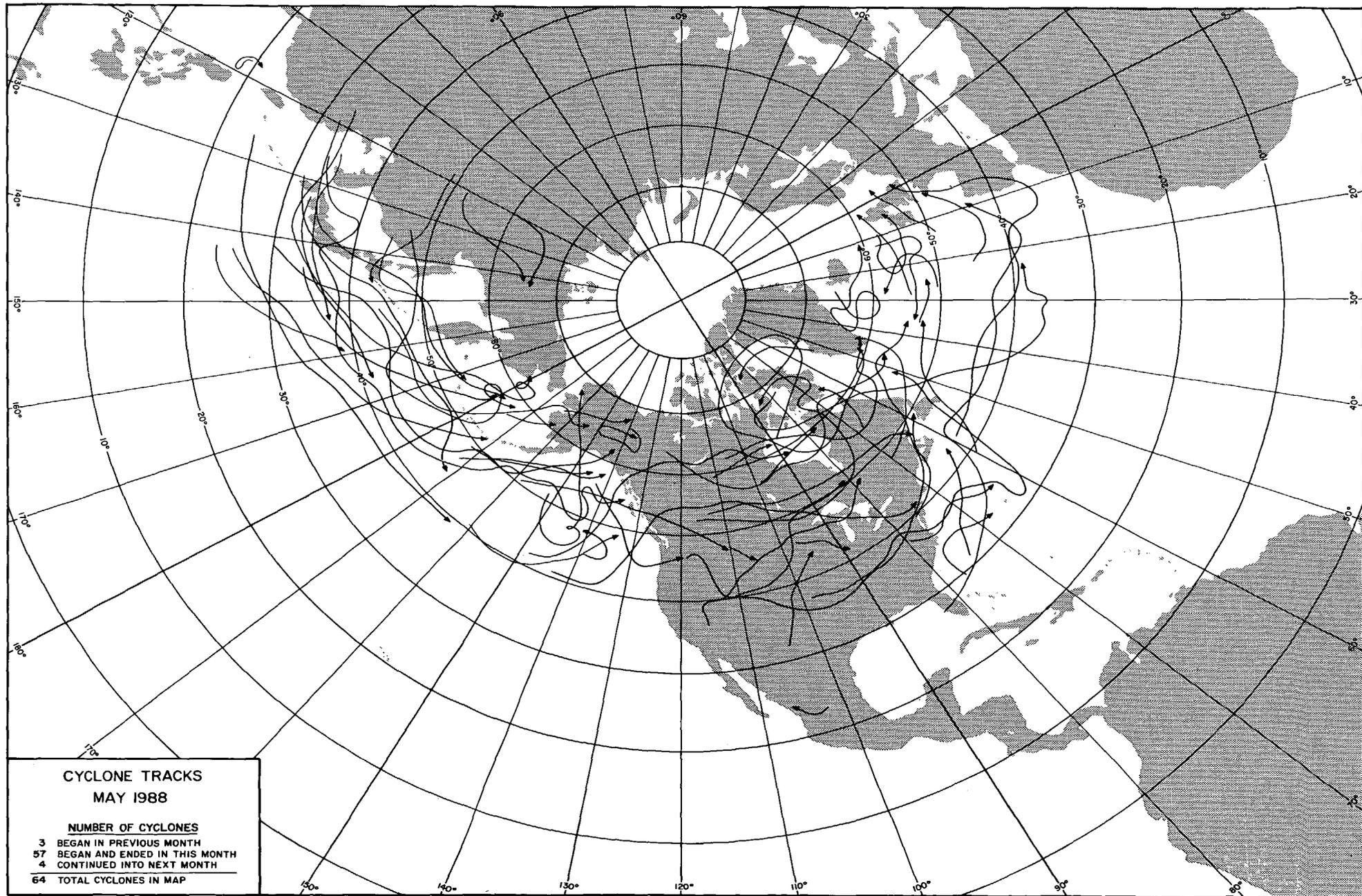
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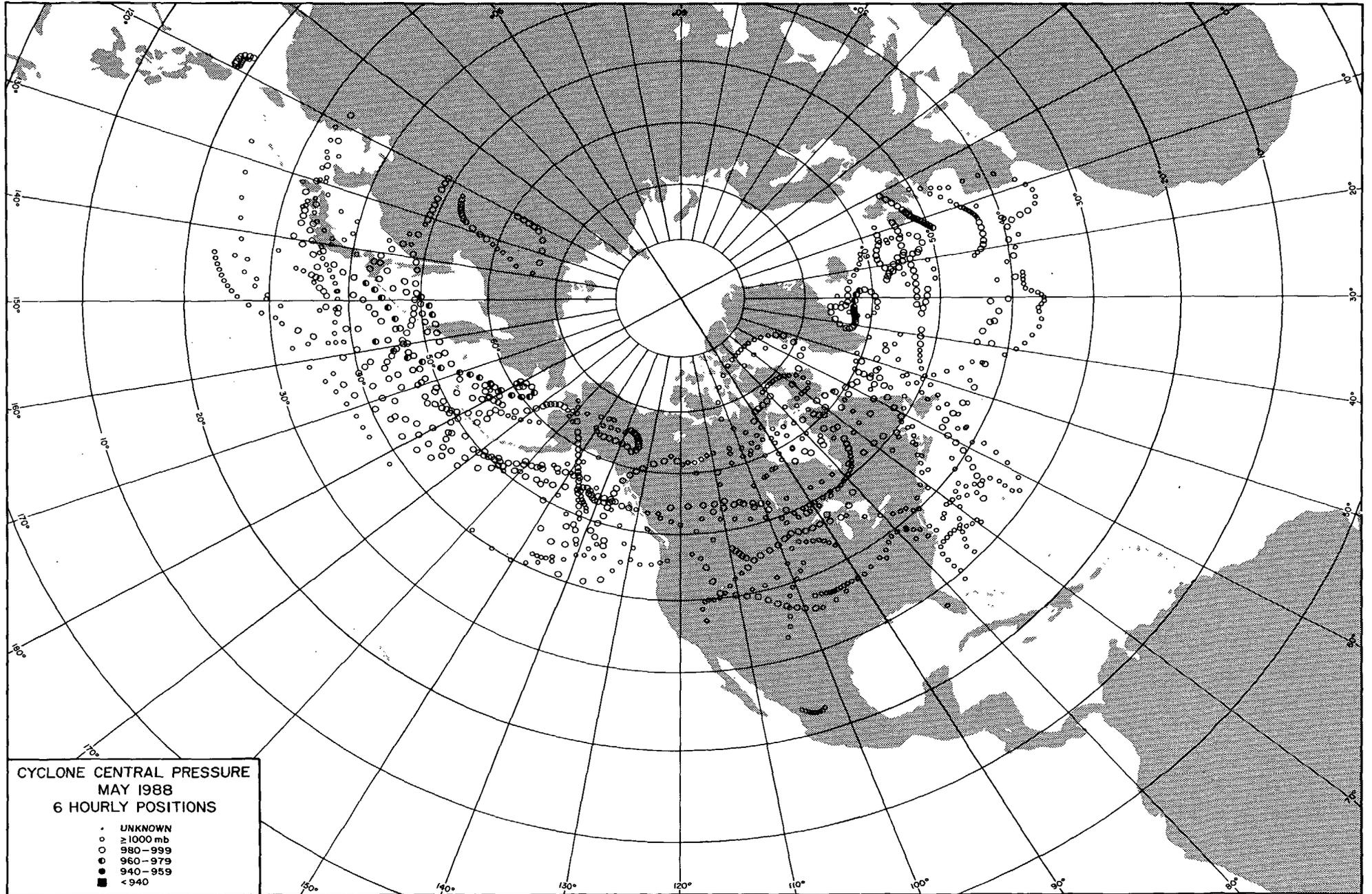
OUTSTANDING STORMS OF THE MONTH



● COMPLETE REPORT RECEIVED	● 1AL	● 7DE	● 14KS	● 21MN	● 28NJ	● 33OH	● 39SD	● 44VA	● 49AK(SE)
○ PRELIMINARY REPORT RECEIVED	● 2AZ	● 8FL	● 15KY	● 22MS	● 29NM	● 34OK	● 40IN	● 45WA	● 50HI
○ REPORT NOT RECEIVED	● 3AR	● 9GA	● 16LA	● 23MO	● 30NY(O)	● 35OR	● 41TX(N)	● 46WV	● 51PR
(N) northern (W) western	● 4CA(N)	● 10ID	● 17ME	● 24MT	● 30NY(C)	● 36PA(E)	● 41TX(S)	● 47WI	● 52VI
(S) southern (C) central	● 4CA(S)	● 11IL	● 18MO	● 25NE	● 30NY(W)	● 36PA(W)	● 41TX(W)	● 48WY	● 53PC
(E) eastern (O) coastal	● 5CO	● 12IN	● 19MA	● 26NV	● 31NC	● 37RI	○ 49AK(N)		
(SE) southeastern	● 6CT	● 13IA	● 20MI	● 27NH	● 32ND	● 38SC	● 43VT	● 49AK(S)	

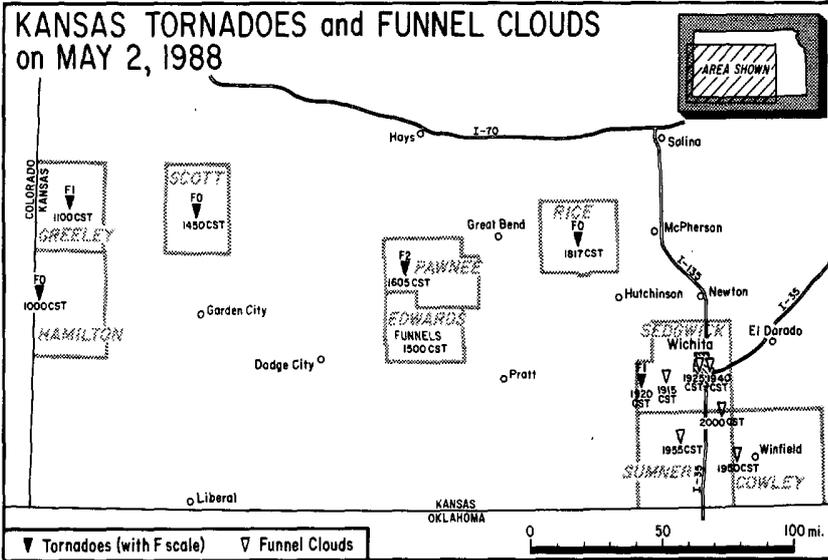






1. TORNADES and FUNNEL CLOUDS in KANSAS on May 2, 1988

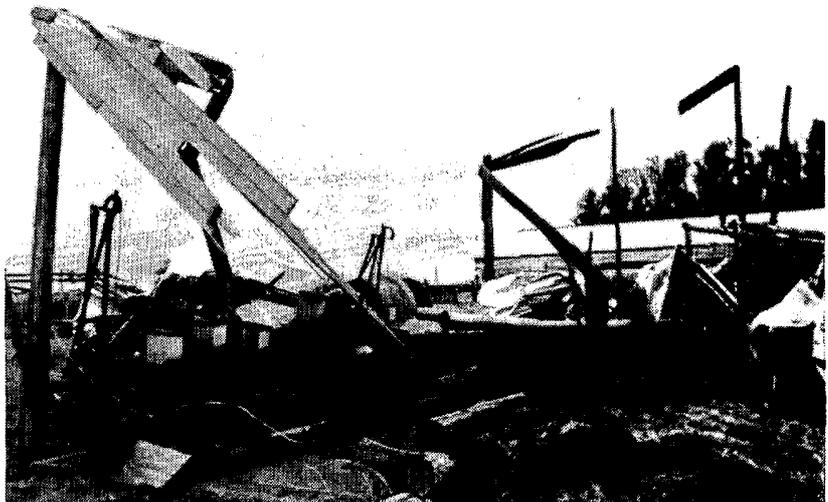
Thunderstorms induced by a strong low pressure system centered over southwest Kansas produced six tornadoes and an even greater number of funnel clouds in an arc across the western, central and south-central portions of the state on May 2nd. Of the six tornadoes, one was F2 in intensity, two were F1 and three were F0. The strongest touched down one mile west of Rozel in Pawnee County and carved a 5 mile long path through farmland, destroying several farm buildings and damaging farm equipment as well. A seventh tornado in the outbreak, an F1, was spawned just west of the Colorado-Kansas border near Holley.



Locations of reported tornadoes and funnel clouds in Kansas on May 2, 1988, with occurrence times, assessed F scale, and affected counties indicated. --- Graphic by the University of Chicago from mapping by the NWSFO at Topeka, Kansas.



An F1 tornado, photographed at 1922 CST on May 2nd, only two minutes after it touched down in Cheney, Kansas, about 22 miles west of Wichita. The tornado traveled 6.5 miles, damaging a mobile home and grain bin and unroofing a barn and a camper along the way. ---Photo supplied by the NWSO at Wichita, Kansas, through the NWSFO at Topeka.



Damaged and destroyed farm buildings and machinery at the Howard Zook farm west of Rozel, Kansas. The chaos was produced by the strongest of the May 2nd tornadoes. ---Both photos by Carl Immenschuh, The Tiller and Toiler, Larned, Kansas; and supplied by the NWSFO at Topeka, Kansas.

2. TORNADO near HARRISBURG, NEBRASKA on May 17, 1988

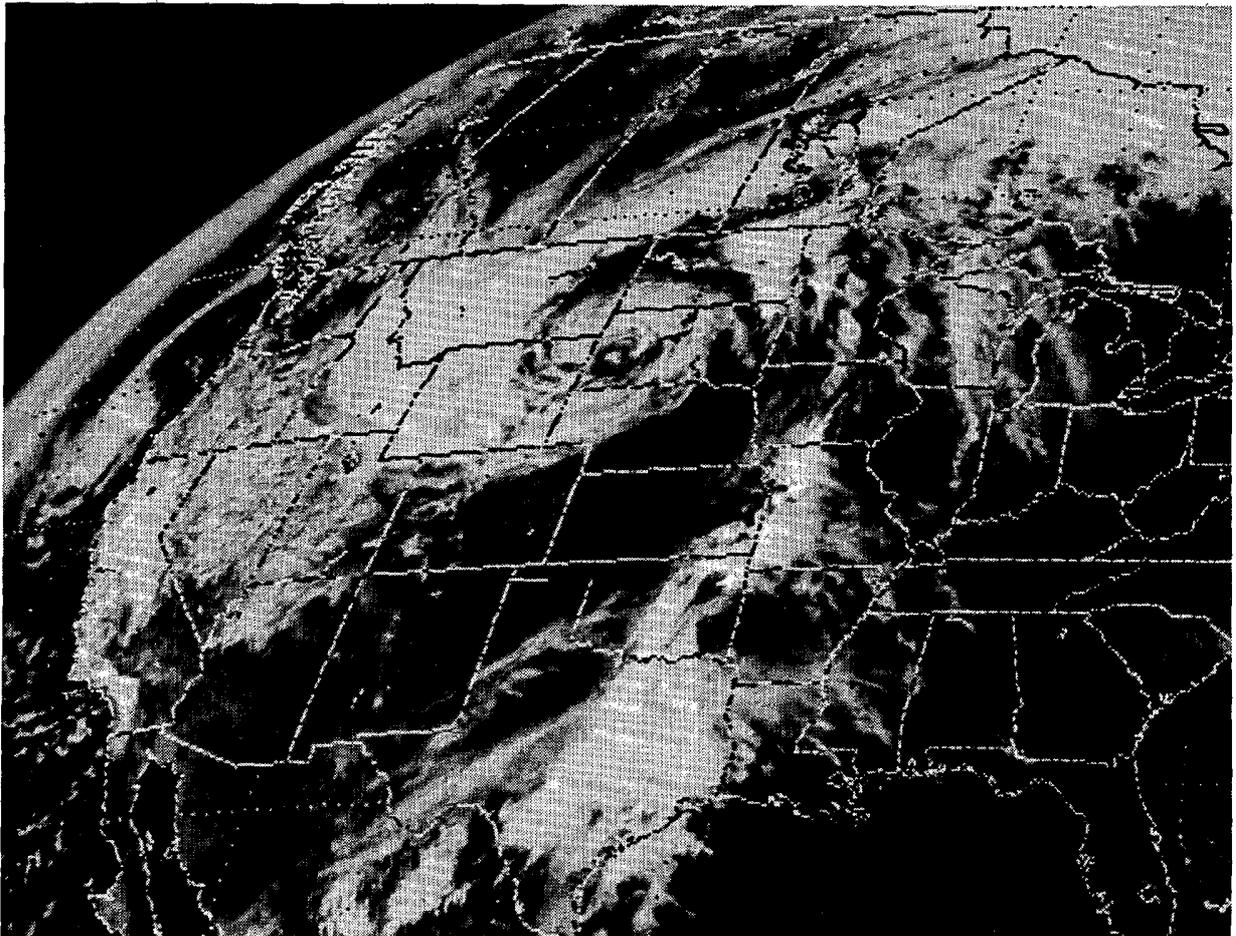


A small and brief tornado was photographed 2 miles southwest of Harrisburg, Nebraska at 1226 MST on May 17th, a minute after it formed in open rangeland. It caused no significant damage and its condensation funnel never reached the ground. It might have gone unnoticed altogether had it not entrained dust from the ground which made it visible near the surface.

The Harrisburg, Nebraska tornado of May 17, 1988, viewed toward the west at 1226 MST. ---Photo by David K. Hoadley, Falls Church, Virginia.

3. MID-LATITUDE CYCLONE and ASSOCIATED PHENOMENA in the U.S. on MAY 6-10, 1988

In early May, a major mid-latitude cyclone formed over Nevada in the Great Basin and lumbered east-northeast across the north-central states to the Great Lakes and eventually southeast Canada. En route, the storm and its trailing cold front brought a variety of severe weather to much of the nation on 5 consecutive days, May 6th through the 10th. Especially damaging were the lines of intense thunderstorms that erupted along the cold front on each of those days, activity which peaked with a major outbreak on Mother's Day, May 8th. A day by day account of the cyclone's most noteworthy severe weather episodes appears on the following nine pages through page 16:



From the large circulation evident in the clouds shown in this GOES 6 satellite, visible image taken at 1230 MST on May 7th, it is apparent that the cyclone's influence controlled weather conditions over the entire midsection of both the U.S. and southern Canada. At this time its center was positioned over Rapid City at the foot of the Black Hills in western South Dakota. ---Photo from NESDIS, Washington, DC.

CYCLONE..., May 6, 1988

During the early afternoon of May 6th, a line of intense thunderstorms moved rapidly northeast through Campbell County in northeast Wyoming and spawned two tornadoes at a mobile home park about 8 miles southeast of Gillette. Both tornadoes occurred between 1336 and 1350 MST and their intensities were F1 and F2, the second being the stronger. Thirteen mobile homes were destroyed and seven families were left homeless. The thunderstorms produced strong winds as well, which caused damage at many locations in Campbell and Weston counties; and a third tornado, only F0, was spawned near Upton.



Damage at the Nickelson Little Farms mobile home park southeast of Gillette, Wyoming where 13 mobile homes were destroyed as two tornadoes barreled through on May 6th. ---Top photo by Kathy Novack and bottom photo by Kevin Doll, both from the News-Record, Gillette, Wyoming; and both photos supplied by Hugh McRandal and Edward Berry, NWSFO at Cheyenne, Wyoming.

CYCLONE..., May 7, 1988

North-Central Wyoming received heavy snow at elevations above the 6000 foot level and drenching rains below as the cyclone moved across the state on May 6th and 7th. This led to flash flooding on the 7th that caused an estimated 0.5 to 1 million dollars in damage across Big Horn, Park and Washakie counties. Damage was done to homes, roads and crops, and the culverts and canals used to carry the water away. Most of the damage was in Park County where 17 bridges or crossings were destroyed and 6 roads were washed away.



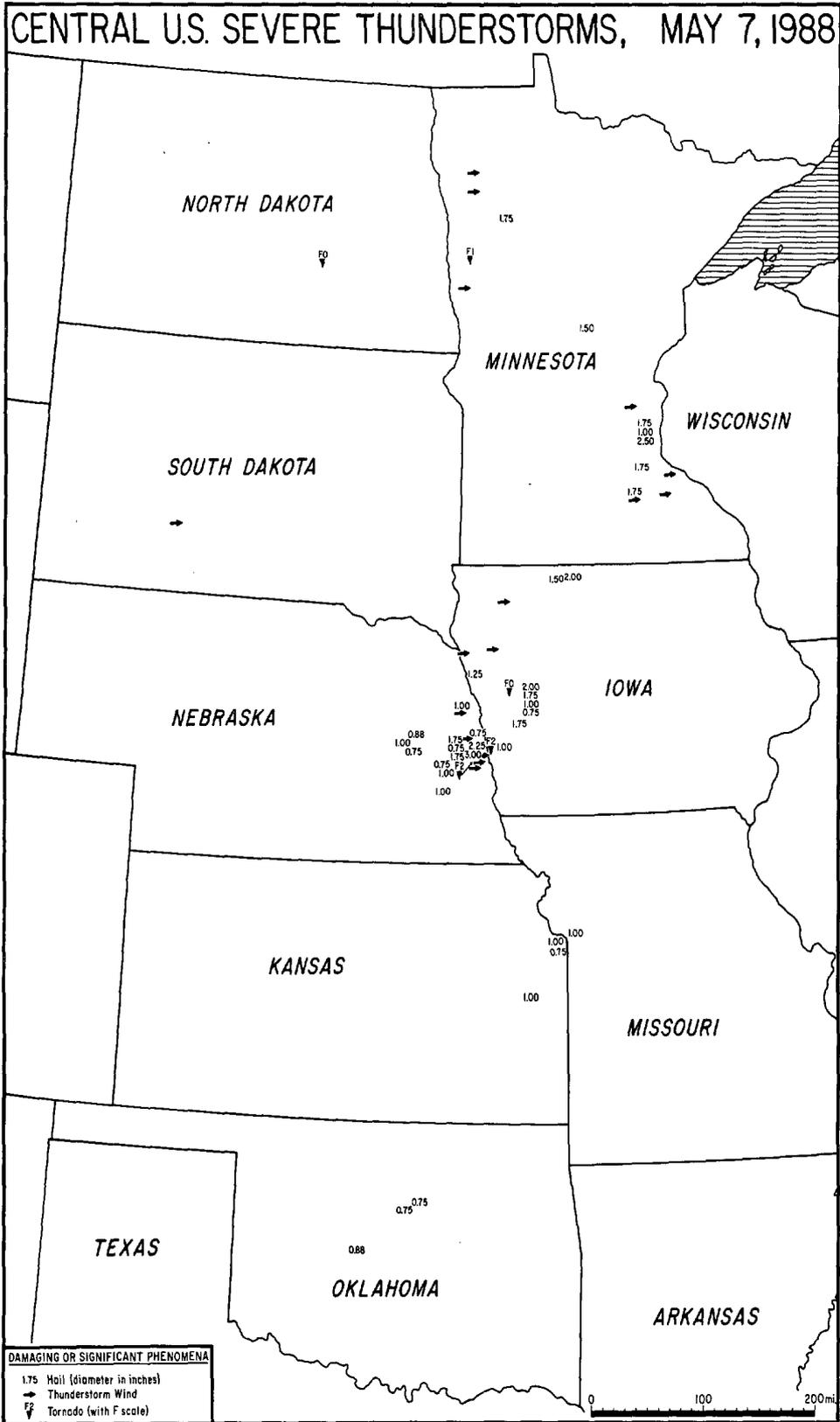
Flooding at a farm in northern Park County, Wyoming on May 7th.



A truck is pointed nose down in floodwater after the driver, not knowing that the crossing beneath the water had been eroded away, attempted to drive through the seemingly shallow water. The location is in northern Park County where 1 to 3 inches of rain had fallen.

---Both above photos by Milton Ontiveroz, *The Powell Tribune*, Powell, Wyoming; and supplied by Hugh McRandal and Edward Berry, NWSFO at Cheyenne, Wyoming.

There were several small lines of strong thunderstorms across the Central U.S. occurring at various times of the day on May 7th. Thunderstorms dropped up to 2.5 inch diameter hail in the Minneapolis-St. Paul area of southeast Minnesota and an F1 tornado damaged farms in Clay County in the northwest part of the state, but the worst of the activity was in the Omaha-Council Bluffs area of eastern Nebraska and western Iowa where two F2 tornadoes touched down and were accompanied by damaging thunderstorm winds and hail of up to 3 inches in diameter. The tornado in Nebraska killed two people near Gretna.

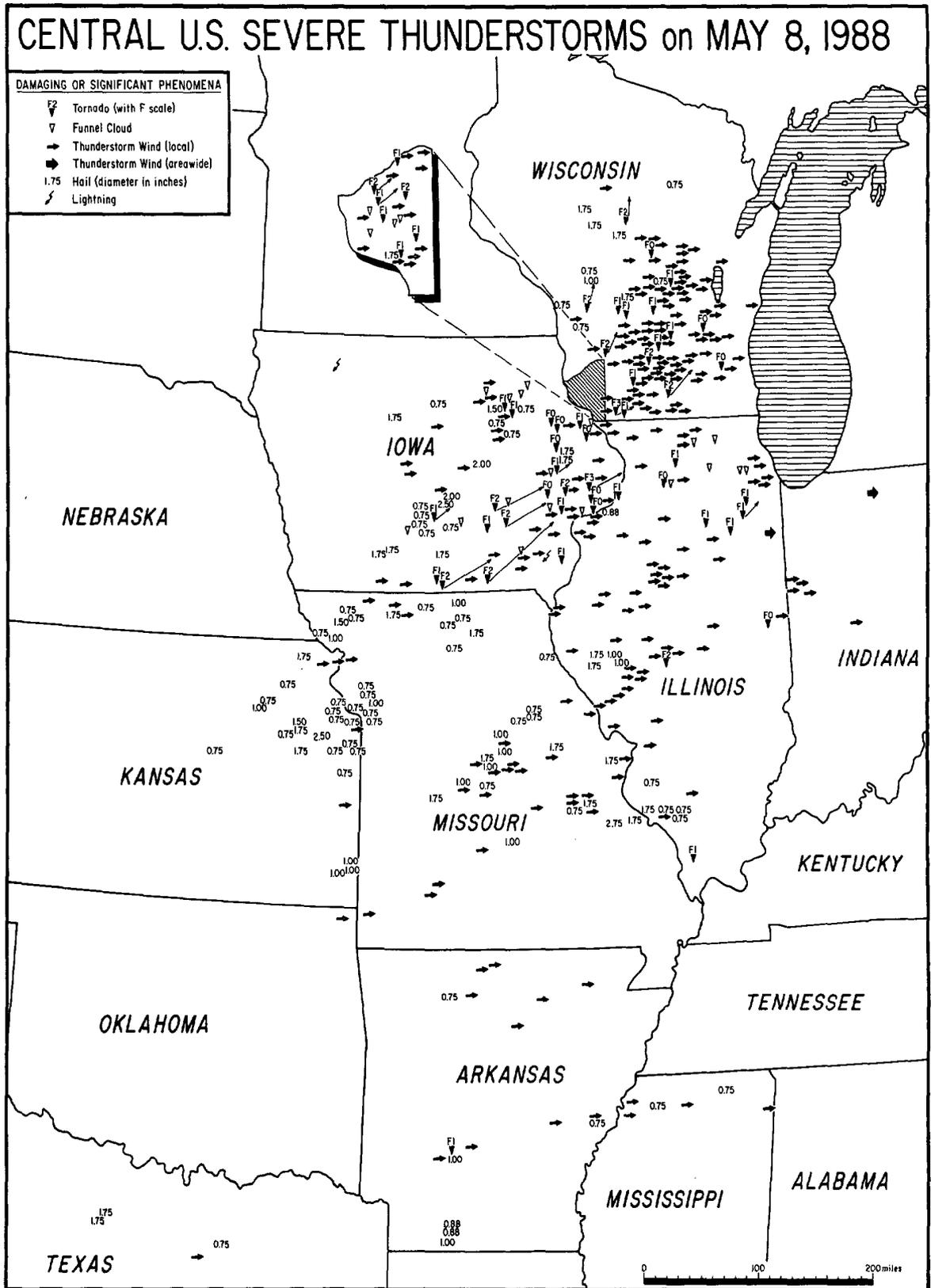


The thunderstorms over Minnesota seen at 1630 CST on May 7th in a GOES 6 satellite, visible image. ---Photo from NESDIS, Washington, DC.

Distribution of severe thunderstorm phenomena reported in the Central U.S. on May 7, 1988. ---Graphic by the University of Chicago from data supplied by NWSFO's at Des Moines, Iowa; Topeka, Kansas; Minneapolis Minnesota; St. Louis, Missouri; Omaha, Nebraska; Bismarck, North Dakota; Norman, Oklahoma; and Sioux Falls, South Dakota.

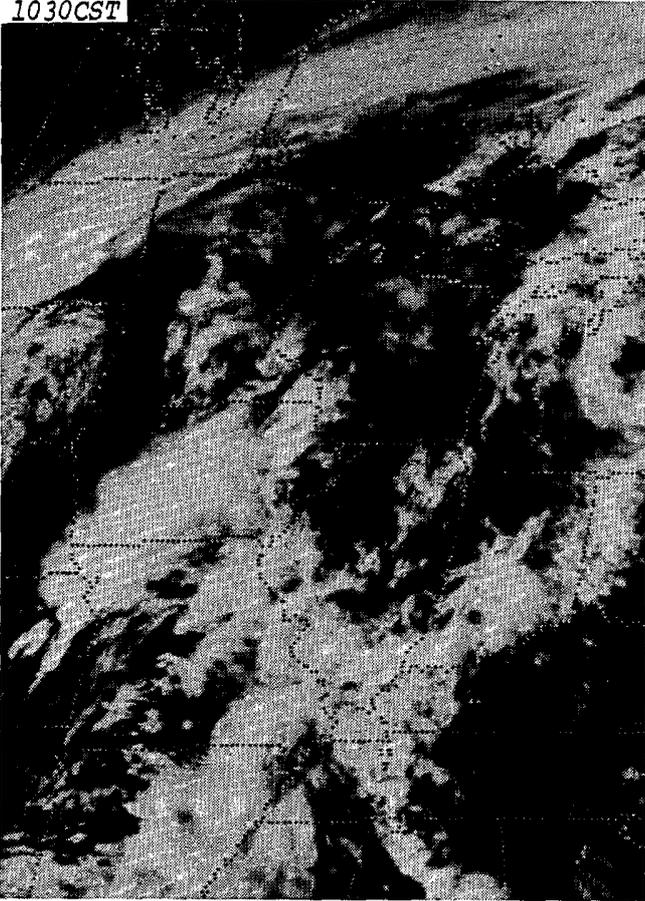
CYCLONE..., May 8, 1988

Mother's Day, May 8th, by far had the most bountiful number of severe weather reports of any of the 5 days of activity produced by the cyclone. It included an outbreak of 57 mostly weak tornadoes, the strongest being two F3's. The tornadoes were concentrated in eastern Iowa, southern Wisconsin and northern Illinois, and some of the Iowa tornadoes had very long paths, the longest being 67 miles. In addition to the tornadoes, there was an abundant number of hail, funnel, and thunderstorm wind reports spread across 10 states in the nation's midsection.

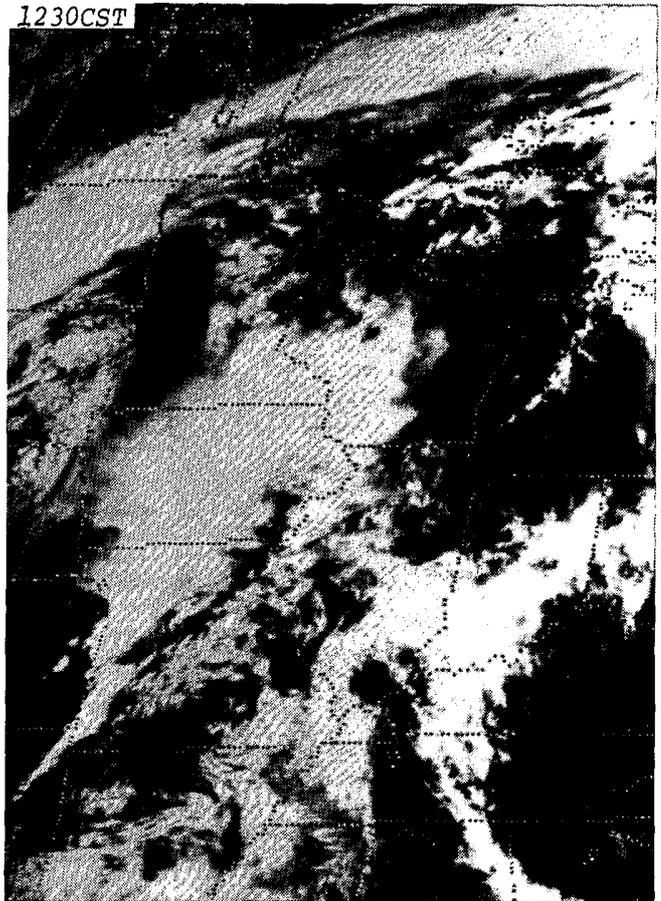


Distribution of severe thunderstorm phenomena reported in the Central U.S. on Mother's Day, May 8, 1988. Included are a few, very early morning reports from May 9th. Grant County in extreme southwest Wisconsin is enlarged due to the density of reports. ---Graphic by the University of Chicago from data supplied by NWSFO's at Little Rock, Arkansas; Chicago, Illinois; Indianapolis, Indiana; Des Moines, Iowa; Topeka, Kansas; Jackson, Mississippi; St. Louis, Missouri; Norman, Oklahoma; Fort Worth, Texas; and Milwaukee, Wisconsin.

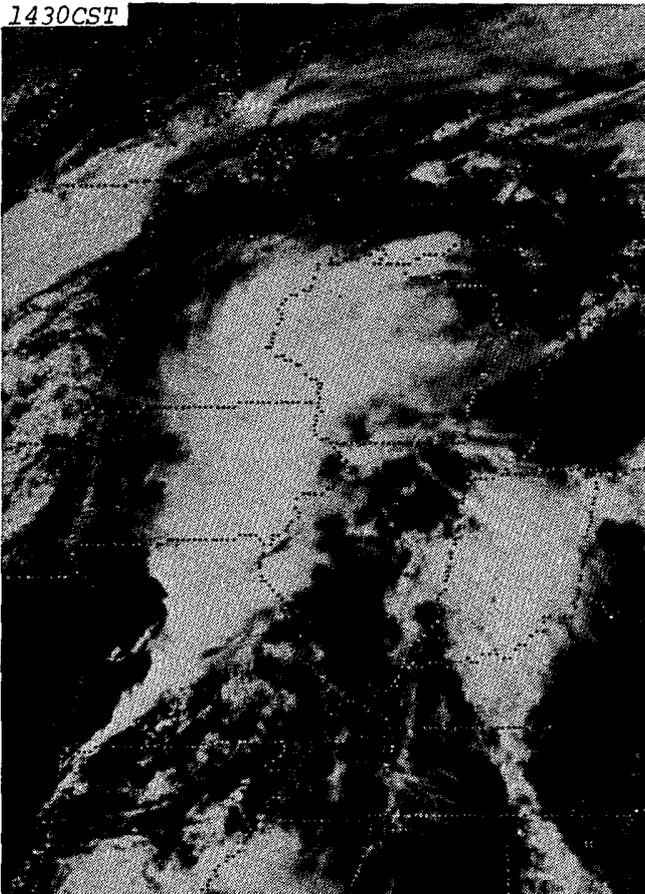
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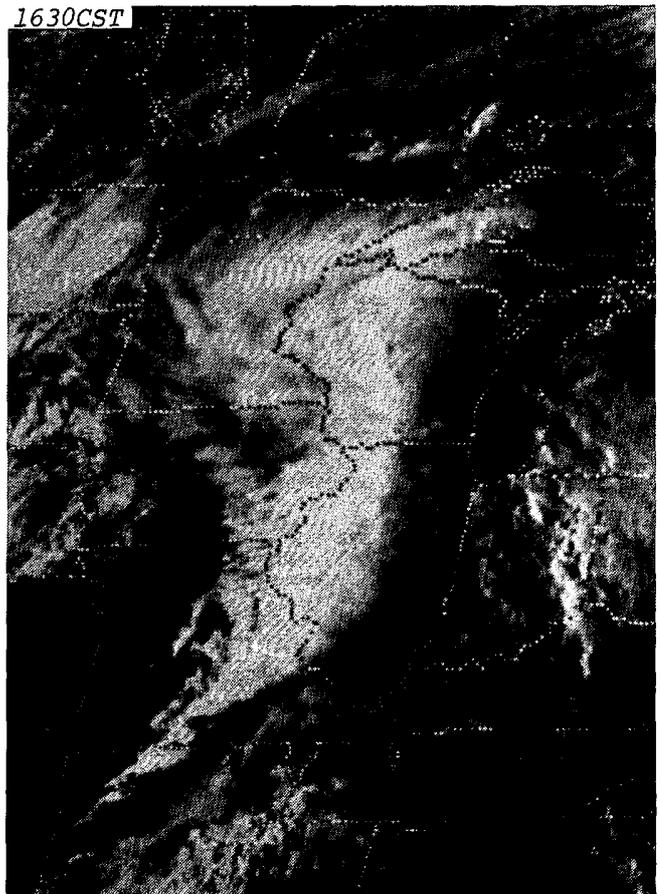
1230CST



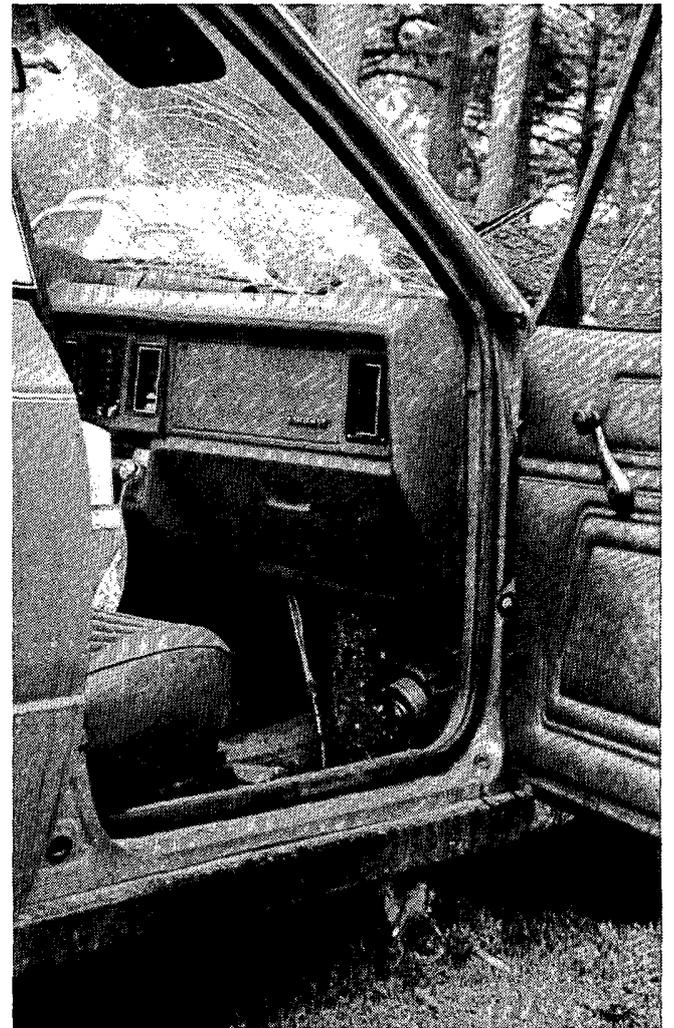
1430CST



1630CST



Four GOES 6 satellite, visible images taken at two-hour intervals on May 8th show the very solid line of intense thunderstorms over the Central U.S. that produced the 57 tornadoes and other severe phenomena that affected the area. Note that the anvil material from the storms was carried northward indicating a south to north, upper-level flow, thus the eastward movement of the line was slow. ---Photos from NESDIS, Washington, DC.



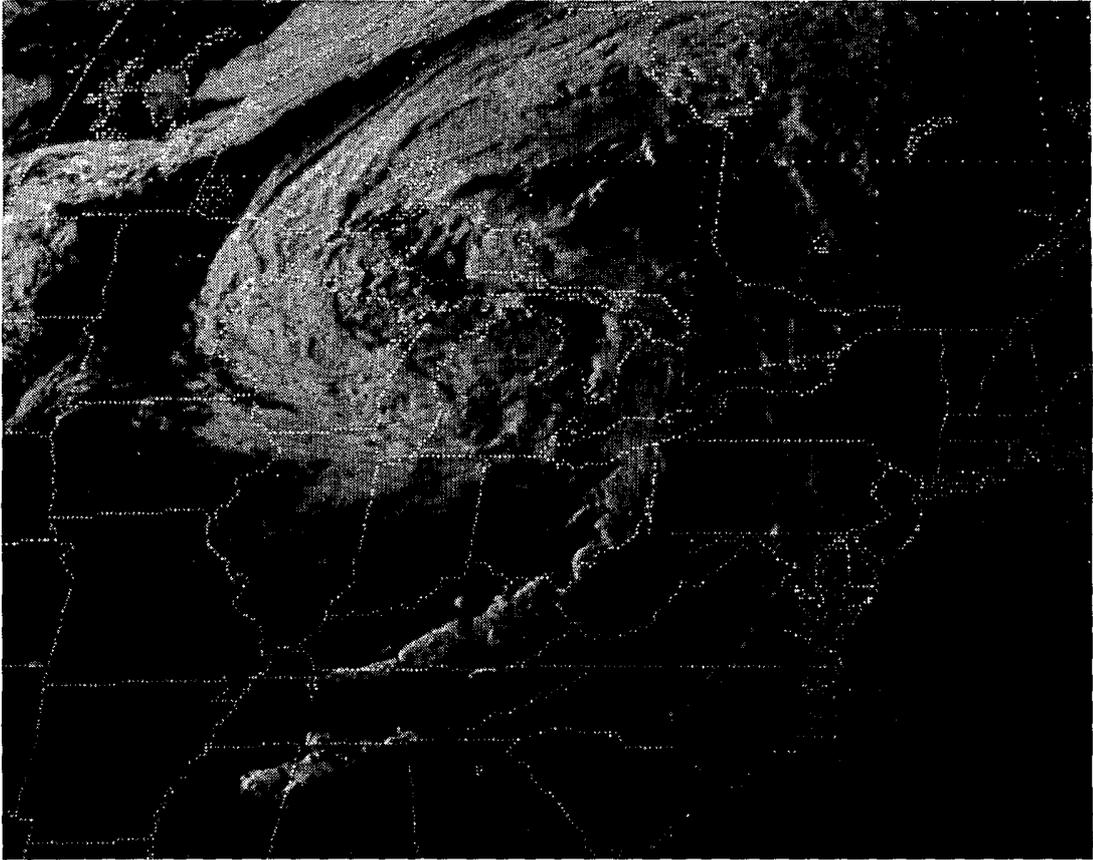
Three views of a car owned by a resident of Reedsburg, Wisconsin show the vehicle to have been speared by a branch belonging to the fallen portion of a pine tree that was broken off by thunderstorm winds on May 8th. The branch passed through the windshield, glove compartment, heater unit and floorboard, and continued into the ground as if to nail the vehicle down. After the branch was cut away from above and below the car, the owner was able to drive it to a nearby body shop for a damage estimate, but the 1981 Ford Escort was considered totaled. ---Photo by Jeff Seering (the car's owner), The Reedsburg Times-Press, Reedsburg, Wisconsin; and supplied by the NWSFO at Milwaukee, Wisconsin.

CYCLONE..., May 9, 1988

On May 9th, thunderstorms shot up once again, forming along an arced line a little further to the east than that of the previous day, a pattern which by now had become a regular feature of the cyclone. Reports of severe thunderstorm phenomena were spread over a larger area on this day, and consisted mainly of large hail and thunderstorm winds. Only two tornadoes were confirmed, but one, an F3, plowed through the middle of Middlesboro, Kentucky and caused substantial damage estimated to be in excess of 22 million dollars in the downtown area alone. Also especially damaging was large hail that fell along a 150 mile long path in northeast Texas as an intense thunderstorm moved east-northeast from about 20 miles east of Waco to between Marshall and Carthage. The hail was as large as 3.5 inches in diameter at Groesbeck and east of Fairfield, and numerous vehicles were damaged at each location. Numerous buildings received roof and window damage in Groesbeck and Teague, each town having incurred at least 100,000 dollars in damage.



Distribution of severe thunderstorm phenomena reported in the Central U.S. on May 9, 1988. Included are a few, very early morning reports from May 10th. ---Graphic by the University of Chicago from data supplied by NWSFO's at Birmingham, Alabama; Little Rock, Arkansas; Indianapolis, Indiana; Louisville, Kentucky; Ann Arbor, Michigan; Jackson, Mississippi; Cleveland, Ohio; Pittsburgh, Pennsylvania; Memphis, Tennessee; and Fort Worth, Texas.



A GOES 6 satellite, visible image taken at 1830 EST on May 9th depicts the circulation of the cyclone, centered over the Michigan Upper Peninsula, in a swirling mass of clouds made up in part of the thunderstorm line that stretched through Ohio and Kentucky. ---Photo from NESDIS.

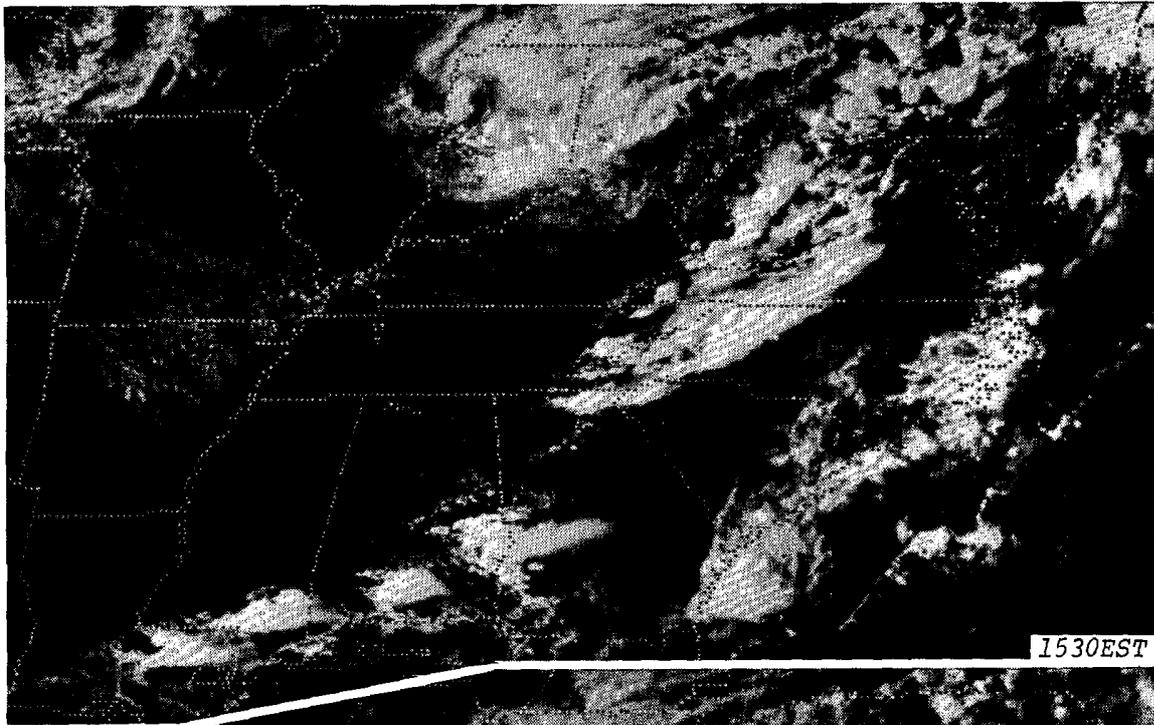


Mrs. Irene Thomas, a Groesbeck, Texas resident, holds up some of the hailstones she had collected on May 9th. She brought a bag full of the stones (lower right of the photo) into the local newspaper office on the day following the storm, which is where and when this photo was taken. ---Photo from the Groesbeck Journal, Groesbeck, Texas.

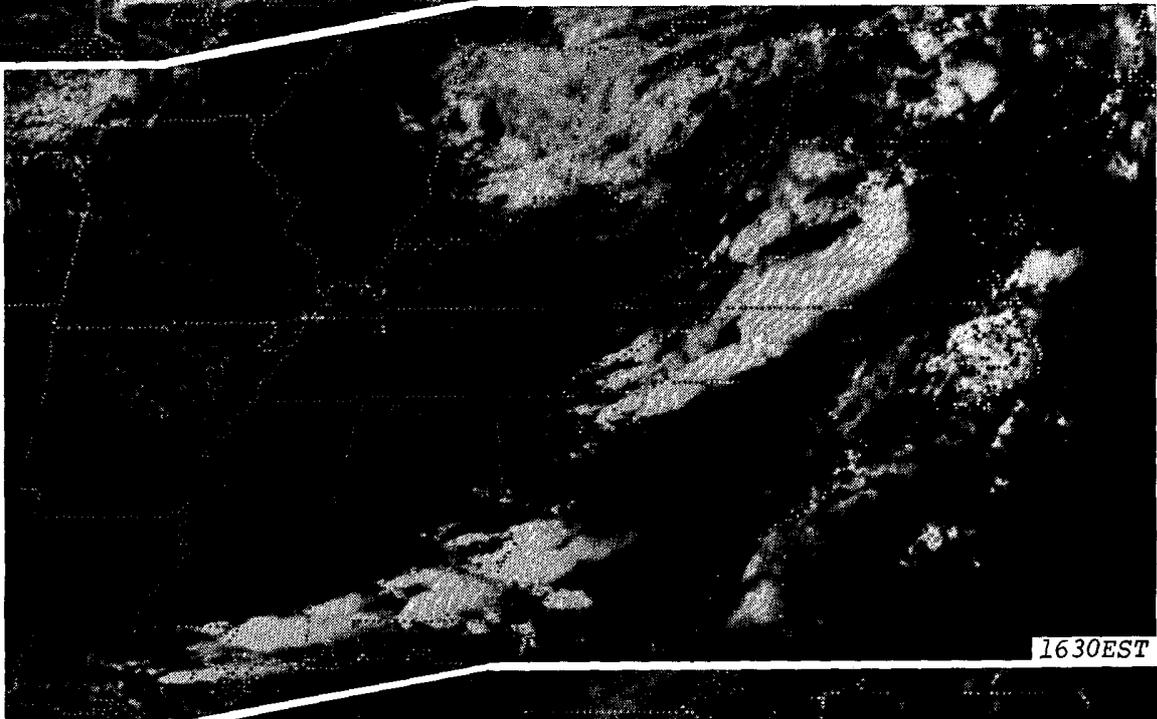
CYCLONE..., May 10, 1988

On May 10th, the last of the 5 consecutive days of severe weather induced by the cyclone discussed on page 7, reports of severe thunderstorm phenomena were fewer and more patchy in their distribution, with mainly hail and thunderstorm winds having occurred in portions of eastern Pennsylvania, western North Carolina, the Florida Panhandle, and southern portions of Louisiana, Mississippi, Alabama and Georgia. By this date, the cyclone's center was weakening in southeast Canada, and its trailing cold front was becoming diffuse.

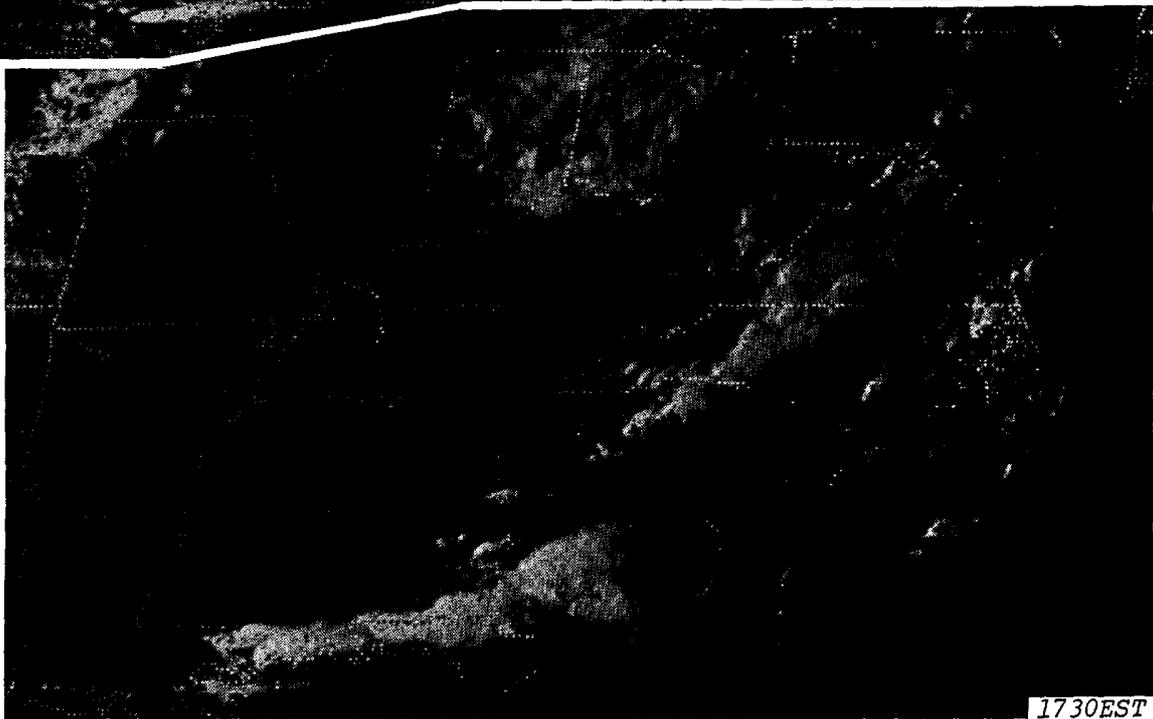
On the following page, the storms of May 10th are seen in three GOES 6 satellite, visible images. Note the small circulation that spun off south of Lake Michigan. ---Photos from NESDIS, Washington, DC.



1530EST



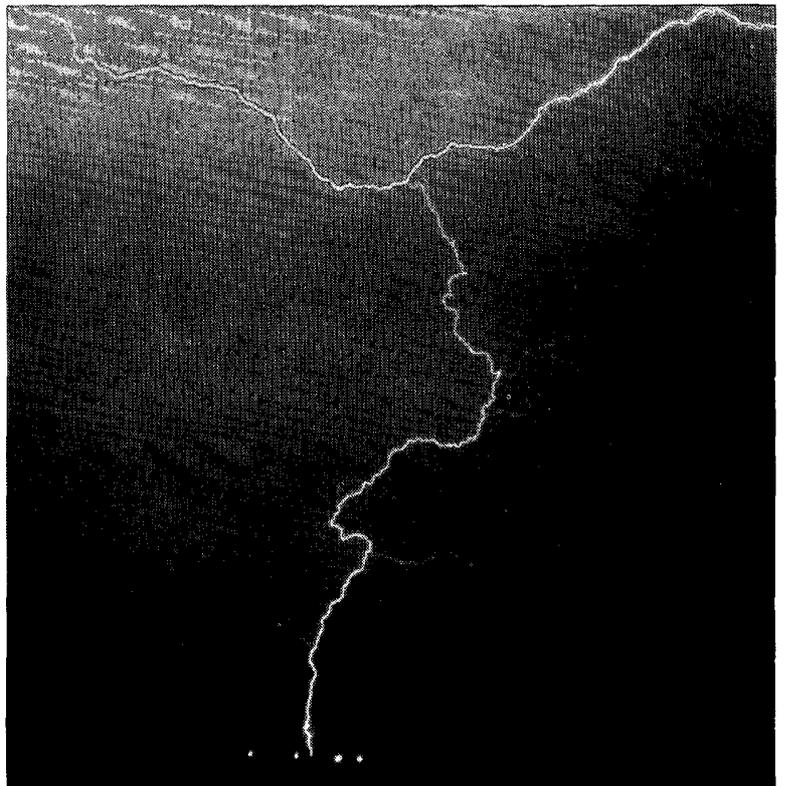
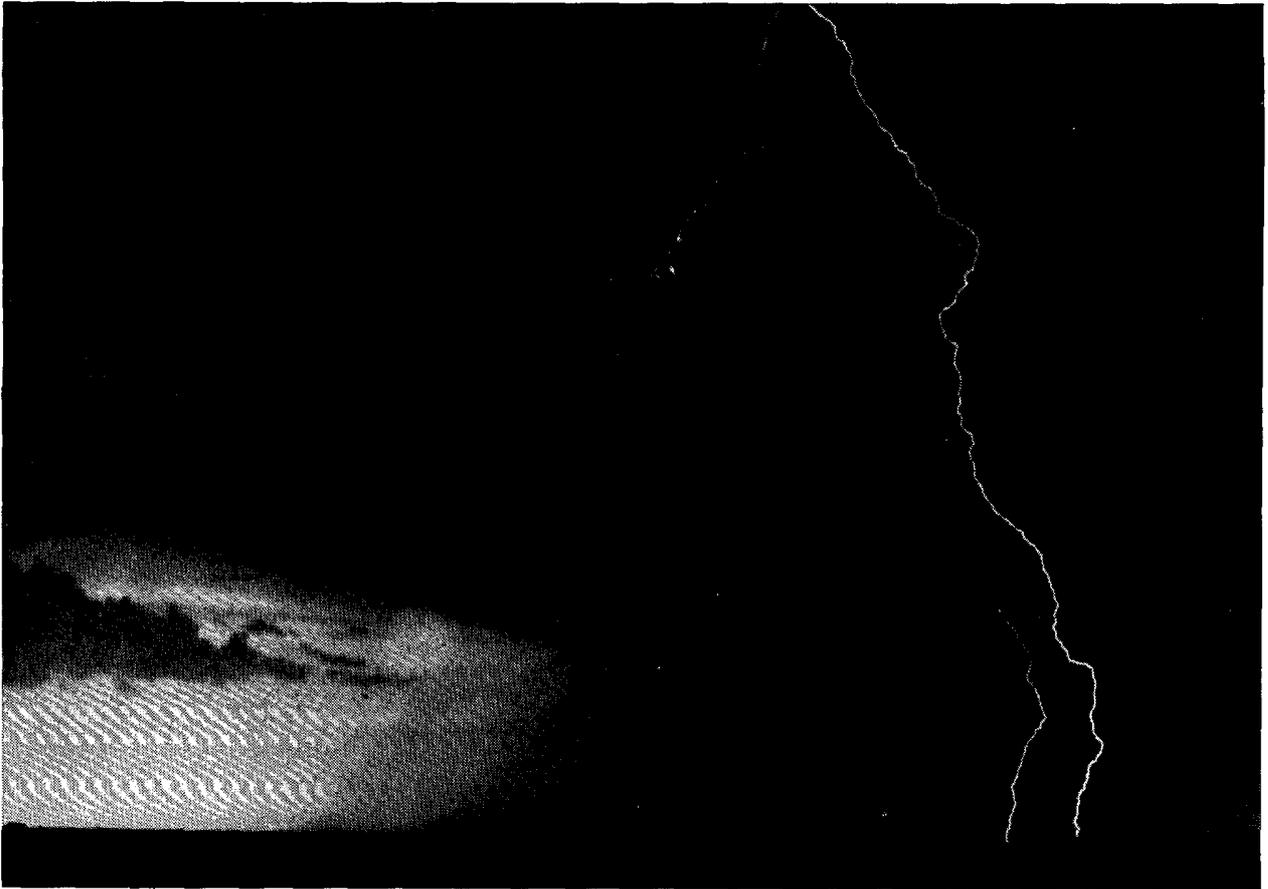
1630EST



1730EST

4. LIGHTNING in LOGAN COUNTY, KANSAS on May 17, 1988

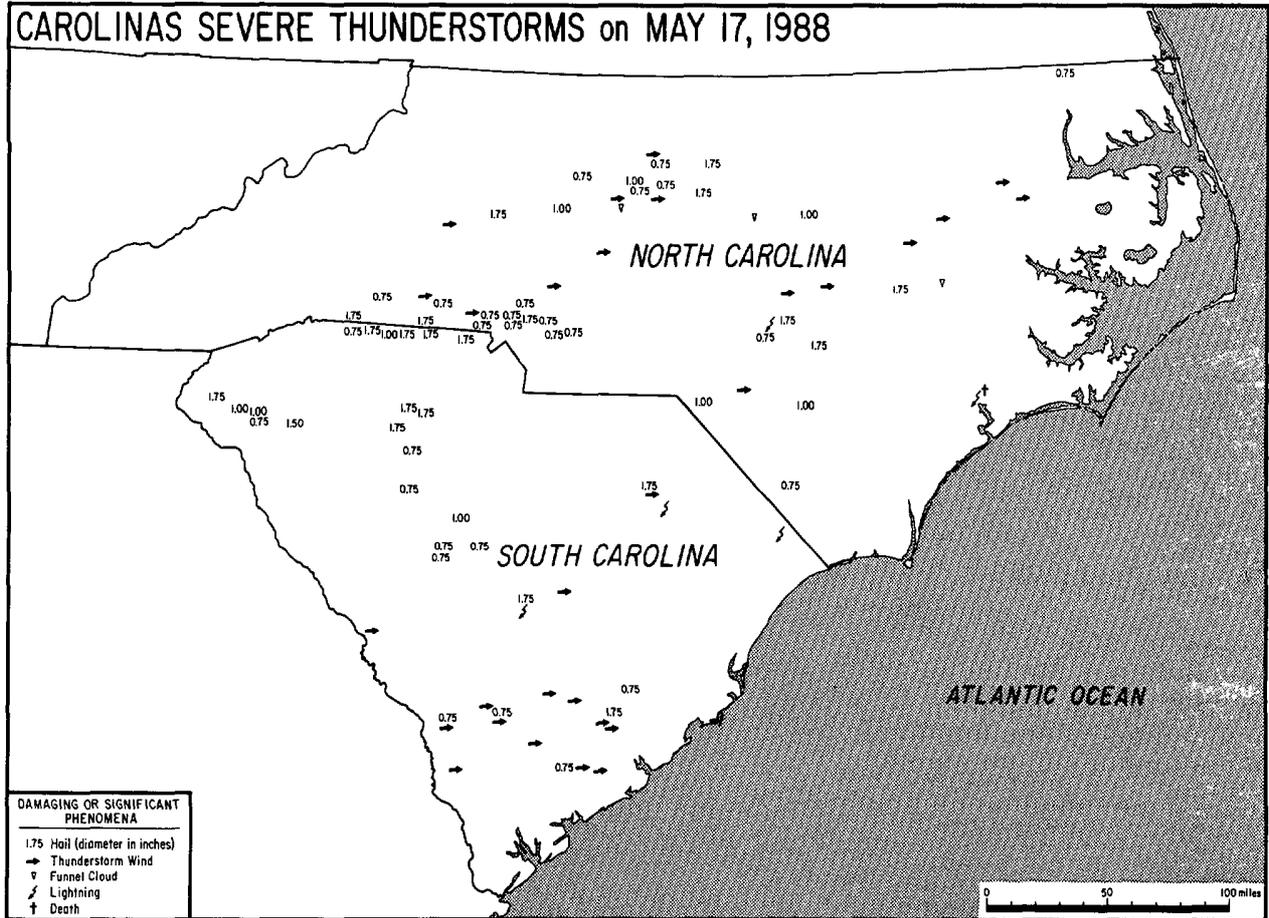
A thunderstorm in Logan County, Kansas during the late afternoon and early evening of May 17th produced a number of cloud to ground lightning strikes, as evidenced in the photos below snapped by storm chasers. A rather close strike, hitting the ground in a very flat, open field near a rest area on Interstate 70, is captured in the lower left photo. The storm also produced hail, heavy rain and some strong winds as it moved northeast across western Kansas during the remainder of the evening.



Cloud to ground lightning discharges in Logan County, Kansas on May 17, 1988. ---Lower left photo by Tim Dorr, Chicago, Illinois; other photos by Jack "Thunderhead" Corso, Harrison, New York; copyright 1988.

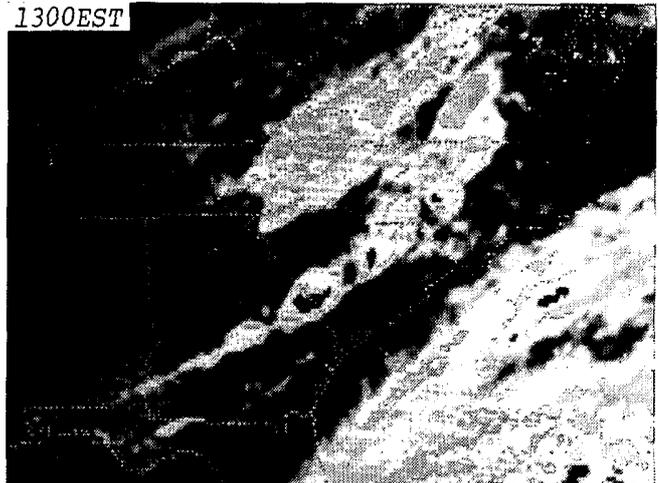
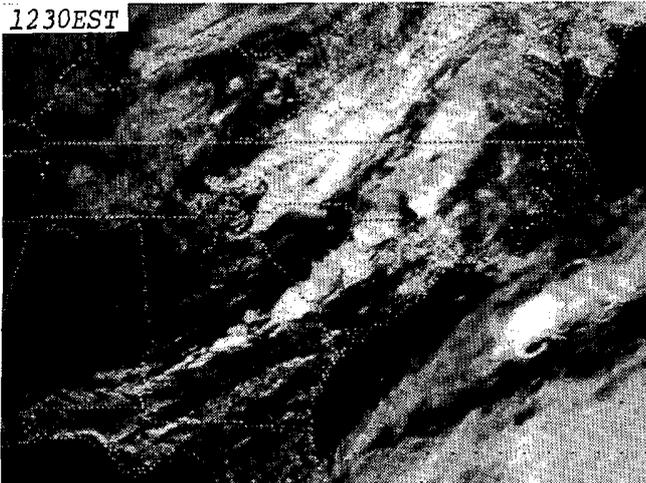
5. SEVERE THUNDERSTORMS in the CAROLINAS on May 17, 1988

Two lines of severe thunderstorms developed over the southeast U.S. by mid day on May 17th, and brought a variety of damaging phenomena to the Carolinas throughout the afternoon. One line formed over the coastal plains while the other formed in the foothills of the Appalachians. Storms within the lines moved generally northeast as the lines themselves drifted ever so slowly eastward. Hail was the most menacing phenomena produced by the western storm line; one storm along the North Carolina-South Carolina border dropped copious amounts of up to golfball size hail that accumulated to a depth of several inches on flat ground and to knee depth in low spots, mostly on the South Carolina side of the state line. Property and crop losses were enormous as numerous vehicles were dented and/or lost windshields, and many homes received serious roof damage. Much of the early apple crop was damaged as well. Damage from the eastern storm line was less significant but resulted more from thunderstorm winds and lightning rather than hail. One man was killed when struck by a falling tree that was split by a lightning strike.

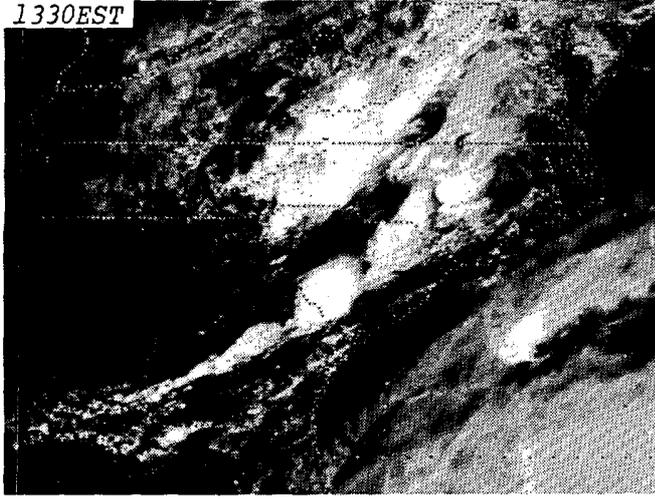


Distribution of severe thunderstorm phenomena reported in the Carolinas on May 17, 1988. ---Graphic by the University of Chicago from data supplied by the NWSFO at Raleigh, North Carolina and the South Carolina Water Resources Commission, Columbia, South Carolina.

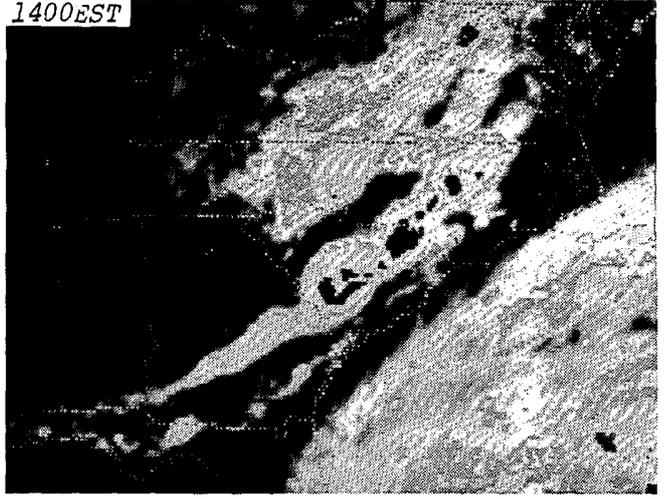
Below and on the following page, a sequence of alternating visible and infrared images taken by the GOES 6 satellite on May 17th show the two thunderstorm lines that formed over the Southeast U.S. and struck the Carolinas with damaging hail, winds and lightning. Note that they moved very slowly over the 5.5 hour period shown. ---Photos from National Environmental Satellite Data and Information Service, Washington, DC.



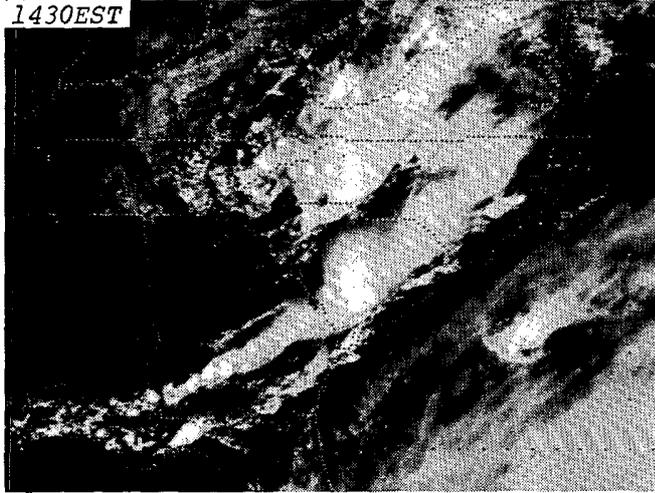
1330EST



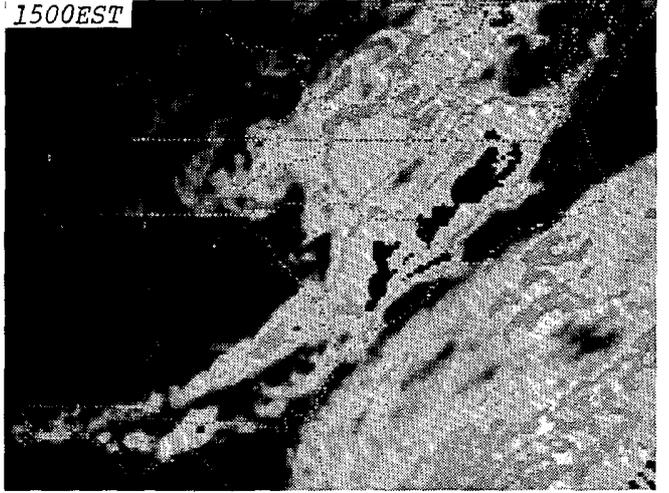
1400EST



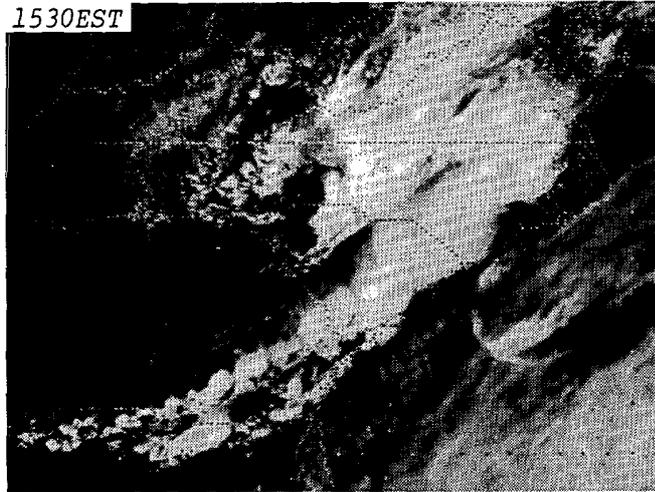
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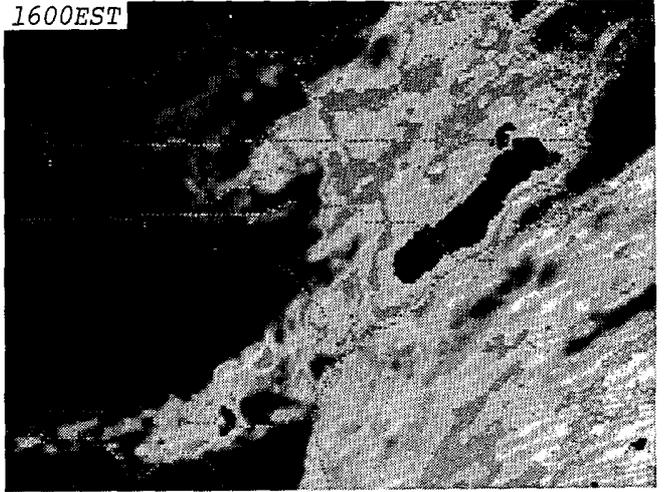
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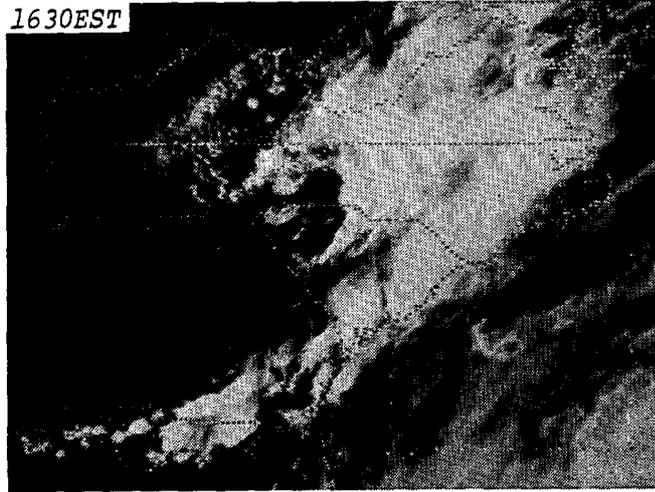
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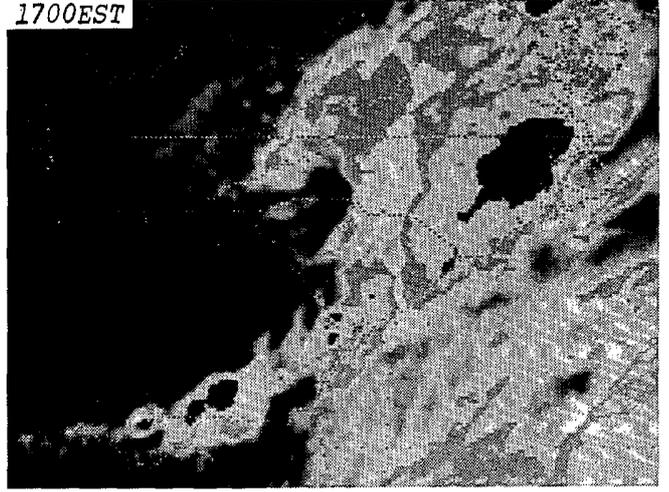
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1630EST

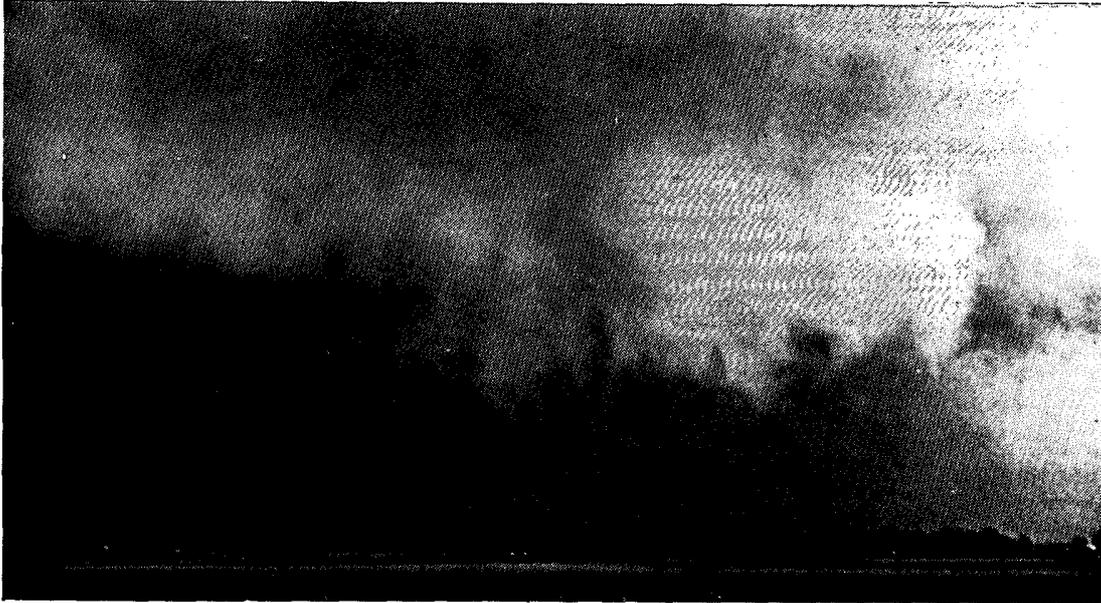


1700EST



6. WALL CLOUD near FORREST CITY, ARKANSAS on May 22, 1988

A thunderstorm near Forrest City, Arkansas on May 22nd exhibited a well-defined wall cloud that was observed and photographed by storm chasers as it passed near Interstate 40 east of the town. Although the formation of these rotating clouds at the base of thunderstorms is often a harbinger of a tornado, none was spawned in this case.

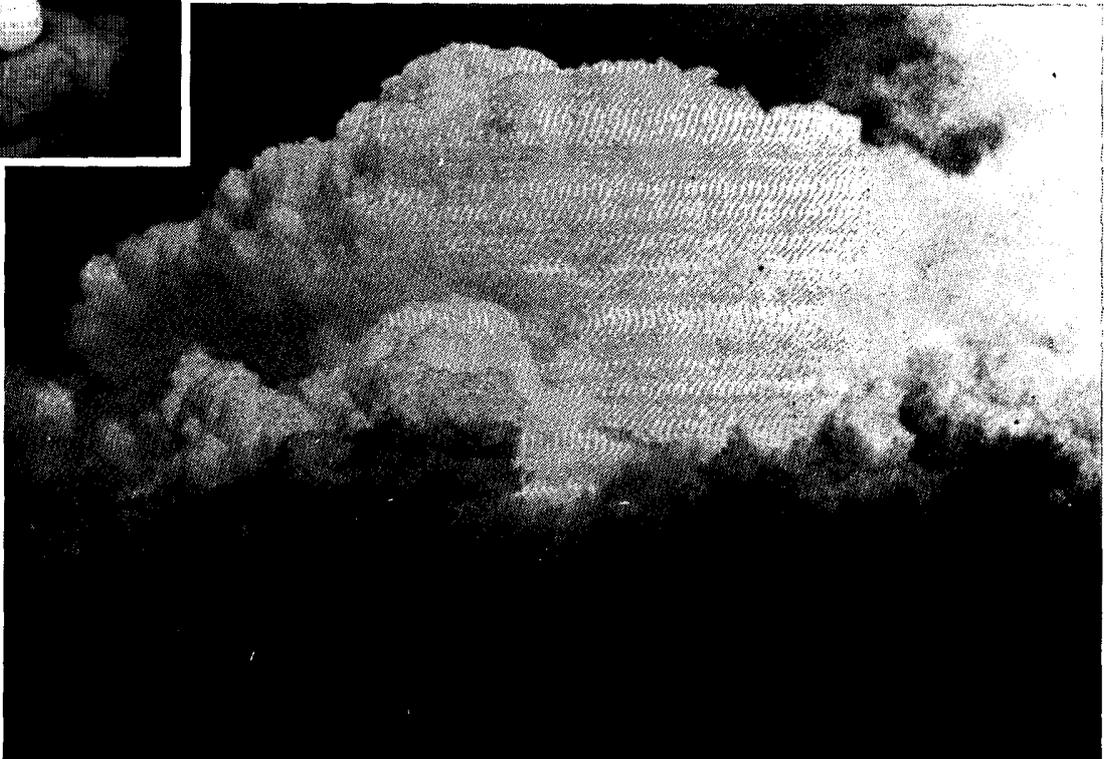


The wall cloud near Forrest City viewed toward the southeast from Interstate 40. ---Photo by Jack "Thunderhead" Corso, Harrison, New York; copyright 1988.

7. HAILSTORM near TATUM, NEW MEXICO on May 25, 1988



During the late afternoon of May 25th, a dryline thunderstorm in eastern New Mexico produced hail of up to golfball size in an area 10 to 15 miles west of Tatum. The storm later moved into western Texas and produced heavy rains there. Samples of the stones were collected and photographed, and the storm itself was photographed from a distance as it dropped its spheres of ice.



The Tatum area hailstorm on May 25th as seen toward the east-southeast from Caprock, New Mexico. ---Photo by Jack "Thunderhead" Corso, Harrison, New York; copyright 1988. INSET: A sample of the hailstones that fell west of Tatum, shown here at about 1600 MST, shortly after the hailfall had ceased. ---Photo by Tim Dorr, Chicago, Illinois.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

ALABAMA

Jackson and DeKalb Counties	09 1825-1835CST	15 50	0 0	4 0	0 0	Tornado (F2)	A tornado touched down about three miles southwest of Stevenson in Jackson County then skipped east about 15 miles. At Cartersville in northern DeKalb County the tornado uprooted trees, tore roofs off three houses, and heavily damaged a mobile home with two elderly women inside. There were no injuries. One inch in diameter hail fell at Widows Creek and near Stevenson in Jackson County.		
Limestone County	09 1900CST		0 0	?	0	TSTM Wind	A roof was damaged on a house at Athens.		
Cullman County	09 1910CST		0 0	0	0	Hail (0.75)	Dime size hail fell in several parts of southern Cullman County.		
Walker County	09 1940CST		0 0	0	0	Hail (0.75)	Nickel and dime size hail at Sumiton.		
Jefferson County	09 1940CST 09 1955CST		0 0	?	0	Hail (1.75) TSTM Wind	Golf ball size hail fell at Adamsville. Trees and power lines were blown down three miles northwest of downtown Birmingham.		
Etowah County	09 1943CST		0 0	?	0	TSTM Wind	A mobile home roof was damaged and was moved a few feet off its foundation. The mobile home was not tied down.		
Shelby County	09 2135CST		0 0	0	0	TSTM Wind	Trees were blown down on State Highway 25 two miles southwest of Columbiana.		
Coosa County	09 2215CST		0 0	?	0	Hail (1.75)	Golf ball size hail fell 10 miles southwest of Sylacauga.		
Tallapoosa County	09 2240CST		0 0	?	0	TSTM Wind	Part of a roof was blown off a building in Alexander City.		
Cullman County	10 0105CST		0 0	?	0	Hail (1.75)	Golf ball size hail fell in the Berlin Center Hill area.		
Blount County	10 0110CST		0 0	?	0	TSTM Wind	Large tree limbs and power lines were blown down in the Oneonta and Snead areas.		
Blount County	10 0130CST		0 0	?	0	TSTM Wind	Large tree limbs and power lines were blown down in the Blountsville area.		
Cullman County	10 0140CST		0 0	?	0	TSTM Wind	Trees were downed at scattered locations in Cullman County. A concert stage was demolished at Smith Lake Park about 10 miles southwest of the City of Cullman.		
Walker County	10 0215CST		0 0	?	0	TSTM Wind	Trees were downed at several locations around the City of Jasper. Fallen trees also caused power outages in Cordova.		
Jefferson County	10 0603CST		0 0	5	0	TSTM Wind	Straight line thunderstorm winds caused damage along a one and one half mile path about 8 miles north northeast of downtown Birmingham. The damage path varied in width from one to two tenths of a mile. One mobile home was destroyed. A male occupant (age unknown) escaped uninjured. Two other mobile homes received minor to moderate damage. Thirteen houses were damaged, four moderately. Two industrial buildings received moderate damage. Three automobiles had fallen trees on them. A shed was blown about. Numerous trees and power lines were also blown down along the damage path.		
Autauga County	10 0720CST		0 0	?	0	Hail (1.25)	Quarter to half dollar size hail fell in the vicinity of the intersection of U.S. Highway 31 and Interstate 65. Many dented hoods and cracked windshields were reported.		
Elmore County: Bulan Church 8 N Wallsboro Santuck	10 1228CST 10 1233CST 10 1235CST		0 0	?	0	Hail (0.75) Hail (0.75) Hail (1.00)			
Elmore County	10 1300CST 10 1300CST 10 1300CST		0 0	?	0	TSTM Wind Funnel Cloud Hail (1.75)	An industrial plant in Tallassee was damaged by thunderstorm winds. Also golf ball size hail fell and a funnel cloud was seen in Tallassee at about the same time.		
Tallapoosa County	10 1310CST		0 0	?	0	Hail (1.75)	Marble to golf ball size hail covered the ground two miles east of Tallassee.		
Macon County	10 1315CST		0 0	?	0	Hail (1.75)	Golf ball size hail fell at Franklin.		
Clarke County	10 1325CST		0 0	?	0	Hail (0.75)	Dime size hail fell between Grove Hill and Whatley.		

ALABAMA

Elmore and Macon Counties	10 1340-1415CST		0 0	?	0	Hail (1.25)	Half dollar size hail fell along a path from Eclectic in Elmore County to Milstead in Macon County.		
Monroe County	10 1410CST		0 0	?	0	Hail (0.75)	Dime size hail fell at Monroeville.		
Russell County	10 1415CST		0 0	?	0	Hail (1.00)	Quarter size hail fell at Hurtsboro.		
Barbour County	10 1500CST 10 1500CST		0 0	?	0	TSTM Wind Hail (0.75)	Trees and power lines were blown down and dime size hail fell on the north side of Eufaula.		
Macon County	10 1500CST		0 0	?	0	Hail (0.75)	Marble to dime size hail covered the ground on U.S. Highway 29 two miles south of Tuskegee.		
Conecuh County	10 1510CST		0 0	?	0	Hail (0.75)	Dime size hail fell at Castleberry.		
Escambia County	10 1615CST		0 0	?	0	Hail (1.75)	Golf ball size hail fell at Atmore.		
Chilton County	16 1335CST		0 0	?	0	TSTM Wind	High winds uprooted a tree which blew across an automobile on U.S. Highway 31 two miles north of Jemison trapping the occupants. There were no injuries.		
Escambia County	16 1603CST		0 0	?	0	Hail (0.75)	Dime size hail fell at Appleton.		
Pickens County	16 1925CST	0.5 50	0 0	4	0	Tornado (F1)	A tornado touched down in Pickensville and moved north about one-half mile. Two houses were moderately damaged. Power lines, power poles and trees were twisted and uprooted. There were no injuries.		
Marion County	16 2010CST		0 0	?	0	TSTM Wind	Thunderstorm winds damaged a barn in Hamilton.		
Limestone County	16 2130CST		0 0	?	0	TSTM Wind	Trees and power lines were blown down at Thatch and Elkmont.		
Limestone County	16 2145CST		0 0	?	0	TSTM Wind	Trees were blown down at Capshav.		
Madison County	16 2225CST		0 0	?	0	TSTM Wind(G60)	Trees were blown down at Plevna.		
Madison County	16 2230CST		0 0	?	0	TSTM Wind	Several large trees were uprooted four miles north of Huntsville.		
Bibb County	23 1259CST 23 1315CST 23 1341CST		0 0	?	0	Hail (1.00) TSTM Wind TSTM Wind	Trees and power lines were blown down at Centreville. Also quarter size hail fell in the same general area.		
Shelby County	23 1343CST		0 0	?	0	TSTM Wind	Thunderstorm winds damaged a home at Aldrich.		
Jefferson County	23 1430CST		0 0	?	0	TSTM Wind(G60)	Part of a roof was blown off a West Jefferson County elementary school.		
Jefferson County	23 1431CST		0 0	?	0	TSTM Wind	Sandusky and Bragg Junior High Schools received wind damage in west central Jefferson County. Also trees and power lines were blown down in the same areas.		
Dallas County	24 1045CST		0 0	?	0	Hail (1.75)	Golf ball size hail fell two miles west of Sardis.		
Elmore County	24 1100CST		0 0	?	0	Hail (1.00)	Quarter size hail fell at Destaville.		
Monroe County	24 1135CST		0 0	?	0	Hail (1.50)	Ping pong ball size hail fell in the rural part of northern Monroe County.		
Montgomery County	24 1145CST 24 1148CST		0 0	?	0	Hail (0.75) Hail (1.00)	Dime and quarter size hail fell in Montgomery.		
Clarke County	24 1150CST		0 0	?	0	Hail (0.75)	Dime size hail fell two miles south of Grove Hill.		
Monroe County	24 1217CST		0 0	?	0	Hail (1.75)	Golf ball size hail fell at Claiborne.		
Butler County	24 1235CST		0 0	?	0	Hail (1.00)	Quarter size hail fell three miles north of Greenville.		
Montgomery County	24 1240CST		0 0	?	0	Hail (1.25)	Half dollar size hail fell four miles east of Davenport.		

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

ALABAMA

Monroe County	24 1243CST				0	0	?	0	Hail (0.75) Dime size hail fell at Peterman.
Choctaw County	24 1245CST				0	0	5	?	Hail (1.75) Golf ball size hail fell from Silas to two miles east of Silas. An estimated 100 houses, and 100 vehicles received damage, some major. Total estimated damage was \$100,000.
Bulter County	24 1300CST				0	0	?	0	Hail (0.75) Dime size hail fell at Forest Home.
Clarke County	24 1305CST				0	0	?	0	Hail (0.75)
	24 1310CST				0	0	?	0	Hail (0.75) Nickel and dime size hail fell at Grove Hill.
Bullock County	24 1330CST				0	0	?	0	TSTM Wind
	24 1330CST				0	0	?	0	Hail (0.75) A power pole was blown down at Smut Eye and dime size hail fell at Union Springs.
Mobile County	24 1448CST				0	0	?	0	Hail (1.00) Quarter size hail fell at Citronelle.
Choctaw County	24 1530CST				0	0	?	0	Hail (0.75) Dime size hail fell at Bolinger.
Choctaw County	24 1600CST				0	0	?	0	TSTM Wind
	24 1600CST				0	0	?	0	Hail (1.00) Trees were blown across power lines three miles southeast of Butler and quarter size hail fell two miles west of Butler.
Escambia County	24 1603CST				0	0	?	0	Hail (0.75) Dime size hail fell ten miles north northwest of Brewton.
Escambia County	24 1610CST				0	0	?	0	Hail (0.75) Dime size hail fell two miles east of Huxford.
Marengo County	24 1700CST	0.5	50		0	0	?	?	Tornado (F1) A tornado tracked from two miles southwest of Linden to one mile north of Linden. The damage was in a rural area. There was no structural damage but there was moderate timber damage.
Houston County	24 1709CST				0	0	?	0	TSTM Wind Trees and power lines were blown down at Dothan.
Coffee County	24 1712CST				0	0	?	0	TSTM Wind Trees and power lines were blown down at New Brockton.
Houston County	24 1715CST				0	0	?	0	TSTM Wind Trees and power lines were blown down at Ashford.

2 ARIZONA

Greenlee County Morenci	19 1900 MST				0	0	0	0	Funnel cloud A short-lived funnel cloud was observed by a spotter moving to the southwest.
AZZ003-005 Northern Arizona	29 All day				0	0	4	0	High wind A strong cold front moved through the state on Sunday. Afternoon wind gusts were estimated to be 50 to 60 mph in many areas. Peak wind speeds of 61 mph were measured at Page, and 60 mph at both Winslow and Show Low. Many boats on Lake Powell were either beached or overturned. A tanker truck with hazardous material was overturned on I-40 near Flagstaff. A piece of a roof on a Sheriff's station in Camp Verde was damaged by wind.

3 ARKANSAS

Lawrence Co.	3 1320CST				0	0	?	?	Hail (1.50) State Police reported walnut-size hail 13 miles south of Pocahontas.
Columbia Co.	8 1144CST				0	0	?	?	Hail (1.00) Quarter-size hail fell at Canton, 7 miles southeast of Magnolia.
Columbia Co.	8 1252CST				0	0	?	?	Hail (0.88) Nickel-size hail fell at Village, Arkansas.

ARKANSAS

Newton Co.	8 1620CST				0	0	?	?	Hail (.75) Dime-size hail was reported by a weather spotter just south of Jasper.
Columbia Co.	8 1648CST				0	0	?	?	Hail (0.88) Nickel-size hail was reported from 8 miles east of Magnolia.
Marion Co.	8 1700CST				0	0	?	?	Thunderstorm Wind A severe thunderstorm ripped through the Flippin Community. More than 15 large trees were downed, along with several power lines. A roof of a carport was also destroyed, as well as the roof of one of the hangars at Marion County Airport.
Searcy Co.	8 1700CST				0	0	?	?	Thunderstorm Wind High winds downed trees on U. S. Highway 65 near St. Joe.
Baxter Co.	8 1722CST				0	0	?	?	Thunderstorm Wind High thunderstorm winds downed trees and power lines at Cotter.
Clark Co.	8 1850CST				0	0	?	?	Thunderstorm Wind Timber damage to structures was reported on Highway 53 near Hollywood.
Clark Co.	8 1856CST - 1858CST	0.25	30	0	0	5	-	-	Tornado (F1) An Arkadelphia policeman witnessed a small tornado rip through the northwest sections of Arkadelphia near the Caddo Valley Community. The storm caused minor damage to houses and downed many trees in an 8 to 10 block area on the northwest side of town. Seventy-five percent of the town of Arkadelphia had the power knocked out by the storm. Around 10 houses sustained moderate damage.
Clark Co.	8 1858CST				0	0	?	?	Hail (1.00) Hail the size of ice cubes fell near Arkadelphia Report from the Arkadelphia Police Department.
Hot Spring Co.	8 1910CST				0	0	?	?	Thunderstorm Wind The tops of trees were ripped apart along Highway 222 in southern Hot Spring County as a severe thunderstorm passed through. A chicken house was destroyed just south of Lono, and an area resident's fence was moved six feet by the winds.
Independence Co.	8 1925CST				0	0	?	?	Thunderstorm Wind High winds downed a tree onto a house and blew down several out buildings 2-1/2 miles north of Cushman. Report from State Police.
Cleburne Co.	8 1940CST				0	0	?	?	Thunderstorm Wind High winds downed a tree onto a car near Brownsville.
Lawrence Co.	8 2020CST				0	0	?	?	Thunderstorm Wind High winds downed trees on Highway 412 just east of Walnut Ridge.
Arkansas Co.	8 2200CST				0	0	?	?	Thunderstorm Wind High thunderstorm winds downed tree limbs and numerous signs in the town of Stuttgart.
Phillips Co.	9 0000CST				0	0	?	?	Thunderstorm Wind Hail (0.75) In Barton, an old barn building was destroyed by high thunderstorm winds. An aluminum fishing boat was moved 1500 feet by the winds. During the same storm, dime size hail was reported at Marvell, while high winds downed trees and power lines in the area.
Union Co.	9 2045CST				0	0	?	?	Hail (0.75) Penny-size hail was reported near El Dorado.
Union Co.	9 2048CST				0	0	?	?	Hail (0.75) Three-quarter inch hail was reported 3 miles southeast of El Dorado.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	

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— ARKANSAS

Ashley Co.	9	2240CST	0	0	?	?	?	?	Hail (1.00) One-inch hail was reported near Snyder in northeast Ashley County.
Chicot Co.	9	2330CST	0	0	?	?	?	?	Thunderstorm Wind The County Sheriff reported that tree limbs and power lines were downed as a severe thunderstorm around the county moved through.
Sharp Co.	12	1430CST	0	0	?	?	?	?	Hail (0.75) Three-quarter inch hail covered the ground 10 miles south of Evening Shade. Report from State Police.
Union Co.	12	1935CST	0	0	?	?	?	?	Thunderstorm Wind High winds from a severe thunderstorm downed power lines at Norphlet.
Craighead Co.	13	1737CST	0	0	?	?	?	?	Hail (1.75) A severe thunderstorm dropped golfball-size hail at Bono.
Pike Co.	21	2315CST	0	0	?	?	?	?	Hail (0.88) Nickel-size hail was reported at Roy.
Arkansas Co.	22	1425CST	0	0	?	?	?	?	Hail (1.25) Hail up to the size of quarters fell on the city of DeWitt. The hail covered the ground, and stripped many of the leaves off the trees.
Cross Co.	22	1437CST	0	0	?	?	?	?	Hail (1.75) Golfball-size hail was reported by the Sheriff's Department 5 miles east of Wynne.
Poinsett Co.	22	1458CST	0	0	?	?	?	?	Hail (0.75) Three-quarter-inch hail was reported at Harrisburg.
Mississippi Co.	22	1615CST	0	0	?	?	?	?	Hail (0.75) Hail 3/4-inch in diameter fell at the Air Force Base at Blytheville.

4 CALIFORNIA, Northern — NONE REPORTED

4 CALIFORNIA, Southern

Marina Del Rey	1	0700pst	1	0	2	0	0	0	Heavy Surf Large swell and strong winds were produced by a dying storm off the California coast. Seas of 20 feet and winds over sixty miles per hour made sailing difficult. The death in Marina Del Rey occurred when the a male abandoned the disabled powerboat south of the harbor entrance. M24V. Several boats received damage from the storm and two boats were complete losses. Beside the death of one person, no other injuries were reported.
Inner Coastal Waters	29	0700pst	2	?	4	0	0	0	High Winds Heavy Seas A cold front moved rapidly over the coastal waters and inland by Sunday morning. The gale-force winds churned up eight to twelve foot seas for the making of a memorable weekend. Fifty feet off the San Pedro pier a powerboat was swamped and a passenger swept overboard. Five people were rescued from the water but one person perished. The boat sank in fifty feet of water. M/V. Another boater was lost when his sailboat capsized off Catalina. M/V. Five people were rescued from a floundering 40 foot sailboat off Catalina Island.

— CALIFORNIA, Southern

Catalina Island Goat Harbor	29	1600pst	0	0	5	0	0	0	Heavy Seas Two boats were destroyed when heavy surf crashed the boats into the coastal rocks. Another boat was overcome by the heavy seas and sank. Fourteen people were stranded on the coast before being airlifted to safety Monday morning.
Redondo Beach	29	1700pst	0	0	?	?	0	0	Heavy Surf Three hundred feet of the Redondo Beach Pier was washed into the sea by 10-12 foot surf. The pier had been ravaged by a winter storm in January. A fire destroyed 300 feet of the pier several days earlier (May 27). No injuries were reported but nearly 200 people were evacuated once the damage began.

5 COLORADO

Eastern Colorado, Southwest Mtns. COZ 006-008-011- 012-013-014- 015-016-017	1	aftn, eve.	0	0	6	0	0	0	High Winds Howling southerly winds caused damage at many spots in eastern Colorado. Fences were blown down and roofs damaged in the Colorado Springs area (El Paso Cy.). Farm buildings were unroofed near Cheyenne Wells (Cheyenne cy), Julesburg (Sedgwick cy), and Colorado Springs. The winds destroyed a shed and an airplane hangar in Hugo (Lincoln cy). At Salida in Chaffee county, two large trees were blown down, damaging a house and a fence. Power poles were blown down in some areas. A store was partially unroofed in La Junta (Otero cy). The winds caused blinding dust storms that closed all roads around Limon, including Interstate 70. The poor visibility caused by the dust contributed to numerous traffic accidents. In southwestern Colorado, two buildings were unroofed in Lake City (Hinsdale cy), and one house in Ouray (Ouray cy) had its roof blown off. The peak wind recorded was 90 mph at Lamar (Prowers cy) at 1510 MST. Gusts of 60 to 70 mph were noted between 1230 and 1800 at La Junta, Colorado Springs, Trinidad (Las Animas cy), Fort Morgan (Morgan cy), and Briggsdale (Weld cy).
Eastern Colorado COZ009-011-012- 013-014-015- 016-017	2	all day	0	0	6	0	0	0	High Winds With the passage of a cold front, the previous day's strong south winds shifted to northerly, and blew just as hard. Interstate 70, closed on the plains by blowing dust the day before, was now closed by blowing snow, which piled into two foot drifts in spots. Actual snowfall was 12 inches at Strasburg (Adams cy); 6 inches at Limon (Lincoln cy); 6 to 8 inches at other spots along the Palmer Divide, and in Flagler (Kit Carson cy). 2 to 4 inches fell in the Denver area. The strong winds and snow combined to form ice buildups on power poles and lines. Thousands of power poles were toppled, mainly in the areas of snowfall in northeast and east central Colorado. Farther south, there was no snow but winds were strongest. A peak gust of 87 mph was clocked at Lamar (Prowers cy) during the morning, and La Junta recorded 84 mph at 1149 MST. The airport in that city had gusts in excess of 60 mph for seven consecutive hours. A greenhouse in La Junta suffered more than \$50,000 damage. A store was partially unroofed, and several trucks and motorhomes were tipped over. Many signs and buildings were damaged. Trees and power lines were blown down. In Lamar, street signs and fences were blown down; a garage door was blown off, and plate glass windows were shattered. Winds in Sugar City (Crowley cy) partially unroofed a mobile home. Pueblo had a peak gust of 71 mph at 1044 MST; sustained winds blew at 60 mph there for an hour. Other spots with gusts of 60 to 70 mph included Colorado Springs; Fort Morgan (Morgan cy); Briggsdale (Weld cy); and New Raymer 21N (Weld cy); all between 0900 and 1400 MST. There was also minor wind damage in the San Luis Valley as a few trees and power poles were downed.
Prowers County	2	0912MST 1/2	40	0	0	0	0	0	Tornado (F1) A tornado was spotted in open country 6 miles south of Holly.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

COLORADO

Statewide COZALL	6 all day	0 1 6 6	High winds	Strong winds blew in all sections of the state; virtually all reporting stations recorded gusts of at least 50 mph, a rare event in Colorado. Most damage was only light to moderate, but it was widespread. In the Denver area, windows were knocked out of buildings. Power poles, wires, and fences were downed. Several buildings were unroofed, and many signs were damaged. Similar damage occurred in the Colorado Springs area, and a man there was slightly injured by a flying roof that had been blown off a shed. Just west of Colorado Springs, two homes were unroofed in Teller county at Woodland Park. There were major power outages in the county. The winds fanned several grass fires in Fountain, just south of Colorado Springs in El Paso county. Farther west, a gas station sign was shattered in Buena Vista (Chaffee cy). The flying debris broke windows in an adjacent store. In the same county, fences were damaged by falling trees in Salida. The series of May windstorms destroyed at least 6000 acres of crops in Weld and Morgan counties. Sugar beets, onions, and barley were smothered by windblown silt. The strongest wind recorded was 85 mph at 0910 MST at Arapahoe Basin ski area in Summit county. Many spots had gusts in the 60 to 80 mph range, mostly between 0900 and 1500. These included, in eastern Colorado: Fort Morgan; Boulder; Aurora; Centennial airport; Colorado Springs; Akron; Trinidad; Pueblo; Greeley; and Fort Collins. In the San Luis Valley: Alamosa, and the Great Sand Dunes National Monument. In western Colorado: Montrose and Gunnison.
Northern Mountains Northeast Pthls. COZ002-011-014	7 morning	0 at 5 0	High winds	Strong winds continued to blow along the northeastern foothills from midnight til midday. A gust of 110 mph was clocked at Table Mesa in Boulder county just southwest of Boulder at 0515 MST. A house in the area was unroofed, and others suffered damage to windows and doors. 12,000 homes in the Boulder area lost power. Numerous trees were blown down; one smashed a car and a motorcycle, another brought down a streetlight and damaged another car. Farther south in Teller county, two buildings were unroofed at Woodland Park. Other peak gusts included 92 mph near Rollinsville (Gilpin cy) at 1255 MST; 92 mph at Rocky Plats, near Boulder; and 91 mph in Boulder at 0300. Other gusts in the 60 to 80 mph range occurred at the Air Force Academy and at NORAD (El Paso cy), and at Wellington and Poudre Canyon in Larimer county.
Clear Creek County	8 mrng.	0 0 0 0	High winds	A gust of 68 mph was recorded at Echo Lake.
Mesa County	8 mrng.	0 0 0 5	Freeze	A freeze damaged cherries in the Grand Junction area.
Boulder County	10 eve.	0 0 5 0	Lightning	Lightning struck a house in Boulder, setting it afire. The house, values at \$170,000, was a total loss.
El Paso County	16 1544MST	0 0 0 0	Tstm wind (G67)	A thunderstorm produced a gust of 67 mph at Colorado Springs.
Weld County	16 1745MST	0 0 4 0	Tstm. wind	A thunderstorm microburst destroyed a garage and a chicken coop near Evans.
Boulder County	18 eve.	0 0 5 0	Lightning	Lightning started a fire at a home in the foothills west of Boulder, causing \$50,000 damage.
Yuma County	19 1357MST 1.5 75	0 0 5 0	Tornado (F2)	A tornado touched down about 10 miles southwest of Wray and moved northeast. The twister hit several farms. One house was damaged, and a flatbed trailer was rolled several hundred yards. Two trailers were overturned. Two grain bins, a large barn, and other outbuildings were destroyed. One grain bin was carried 3/4 of a mile by the tornado. A combine and other farm machinery was damaged. About 15 trees were uprooted, and two roosters were reported missing.
Kiowa County	19 1422MST 1 40	0 0 0 0	Tornado (F1)	A tornado touched down 8 miles west-northwest of Eads and stayed on the ground for 6 minutes.
Arapahoe County	19 aftn.	0 0 0 0	Lightning	Lightning started a fire at a house in the Denver suburb of Greenwood Village, causing \$2000 damage.

COLORADO

Northern Mtns., Northeast Co. COZ002-011-012-013-014	18-20	0 0 4 0	Rain, snow	A prolonged rainfall drenched northeastern Colorado. The event began with heavy thunderstorms on the 18th that caused some street flooding and power outages in the Denver area, followed by steady rain on the 19th and 20th that was a big help to agricultural interests. Rainfall amounts in the area ranged from 2 to 5 inches in most places, with the heaviest amounts in extreme northeast Colorado. 3 to 4 inches fell in the Denver metro area. Snow fell at higher elevations. Echo Lake, about 10500 feet above sea level in Clear Creek county, had 29 inches from the storm. At lower elevations, 13 inches fell at Divide (Teller cy), with 10 inches at Monument (El Paso cy). 4 to 8 inches fell at many spots in the foothills west of Denver above 7000 feet elevation. Most snowfall occurred late on the 19th and early on the 20th.
Morgan County	25 aftn.	0 0 4 0	Lightning, Tstm. winds	Lightning and strong winds caused power outages in the Brush area. Several power poles were snapped.
Larimer County	27 1552MST	0 0 0 0	Tstm wind (G60)	A gust of 60 mph was recorded 3 miles SSE of Fort Collins.
Elbert County	30 0105MST	0 0 0 0	Tstm wind (G60)	A gust of 60 mph was recorded at Elbert.
Phillips County	30 1903MST	0 0 0 0	Hail (0.75)	3/4 inch hail fell in Haxtun.
Kit Carson County	30 1930MST 1 50	0 0 4 0	Tornado (F2)	A tornado 3 miles west of Stratton damaged a circle irrigation system and a semi-trailer, which was lifted off the ground and thrown in a ditch. A barn and a chicken house were destroyed, and several trees were uprooted. The twister moved from south to north.
Prowers County	30 2000MST 0.5 30	0 0 0 0	Tornado (F0)	A tornado was spotted just north of Wiley.
Cheyenne County	30 2016MST 1 25	0 0 0 0	Tornado (F0)	A small tornado was spotted 10 miles northeast of Cheyenne Wells.
Logan County	30 2325MST 2 50	0 0 4 0	Tornado (F1)	A probable tornado just north of Sterling uprooted trees, damaged a few outbuildings, and blew a camper into a field. Some power lines were downed. One tree was uprooted and carried 200 yards. Occurring late at night, the tornado was not actually sighted, but several witnesses heard a roaring sound normally associated with a twister.
San Luis Valley COZ009	31 mrng.	0 0 0 4	Freeze	A freeze in the San Luis Valley caused 25 to 30 thousand dollars of damage to plants.
Washington County	31 1717MST	0 0 0 0	Hail (1.0)	1 inch hail fell 4 miles west of Anton.

CONNECTICUT

Litchfield County Bristol	22 1400EST-1500EST	0 0 4 0	Lightning	Lightning caused scattered power outages and heavy rain flooded streets and basements when over one inch of rainfall occurred in about twenty minutes. Gusty winds felled some trees and one auto was severely damaged.
Hartford County, Manchester	24 1400EST	0 1 0 0	Lightning	A man was knocked to the ground by a bolt of lightning while working on a construction project. He was taken to the hospital and released several days later.

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MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	
7 DELAWARE									
DEZ003 Northern DE	18	2300EST			0	0	3	2	Urban Flood
		Heavy overnight rainfall, when added to a nearly steady two day rainfall, swelled water levels. At Newark, 4 inches of rain fell on the 18th and 19th, with 2 inches occurring between 5 to 7 am on the 19th. The Christina River reached 11.6 feet at 9am, the second highest crest on record. White Clay Creek crested at 14.2 feet, its third highest crest. Water was slow to recede due to a 3pm high tide on the Delaware River. One calf drowned. Parts of roads were briefly closed, and some basement flooding occurred.							
8 FLORIDA									
Monroe Co., Marathon	01	1037EST			0	0	4	0	TSTM wind (59)
	01	1037EST			0	0	0	0	Hail (0.75)
		High wind damaged signs, screens, sheds, and two aircraft on the ground. Hail .75 inches in diameter was reported.							
Escambia Co., nrn portion	10	1558CST			0	0	0	0	Hail (1.75)
Walton Co., nrn portion	10	1614CST			0	0	0	0	Hail (1.75)
Okaloosa Co., nrn portion	10	1632CST			0	0	0	0	Hail (1.75)
Holmes Co., Bonifay(5mi N)	10	1700CST			0	0	0	0	TSTM wind (55)
		A strong thunderstorm moved along the northern part of the Florida panhandle. High wind and golf ball size hail was reported by highway patrol, sheriff's office, and the civil defense. The only damage noted was downed trees in rural areas.							
Volusia Co., Deland	11	1345EST			0	0	4	0	TSTM wind (55)
		Strong wind downed 40 large oak trees. The falling trees damaged cars, houses, and downed power lines.							
Volusia Co., Oak Hill	11	1520EST	1.0	30	0	0	0	0	Tornado (F0)
	11	1520EST			0	0	0	0	Hail (0.75)
		A strong thunderstorm produced a tornado and hail .75 inches in diameter. Damage was light due to the rural nature of the area.							
Citrus Co., Citrus Springs	14	UNK			0	0	5	0	Lightning
		Lightning started a fire which destroyed an unoccupied house.							
Monroe Co., Key West	16	1616EST	1.0	30	0	0	2	0	Tornado (F0)
		A small tornado moved over Key West causing minor damage to trees and an awing.							
Osceola Co., Kissimmee(10mi W)	21	2215EST			0	0	0	0	Hail (0.75)
		Hail .75 inches in diameter was reported.							
Lake Co., Mount Dora	24	1300EST			0	0	0	0	Hail (1.75)
		Golf ball size hail was reported.							
Polk Co., Fort Meade	24	1400EST			0	0	3	0	Hail (1.00)
		Hail 1.0 inch in diameter damaged automobile paint.							
St. Johns Co., St. Augustine (2mi W)	24	1405EST			0	0	3	0	Hail (1.5)
		Hail 1.5 inches in diameter damaged cars and trucks.							
Volusia Co., Enterprise	24	1530EST			0	0	0	0	Hail (1.5)
		Hail 1.5 inches in diameter was reported.							
Seminole Co., Paola	24	1600EST			0	0	3	4	Hail
		Hail of unknown diameter caused extensive damage to crops and losses to vehicles.							
Nassau Co., Hilliard	24	1844EST	1.0	30	0	0	3	0	Tornado (F0)
		A tornado blew the roof off of a back porch and caused damage to a pickup truck. Trees were twisted and uprooted.							
— FLORIDA									
Brevard Co., Melbourne Beach	24	1900EST			0	0	4	0	TSTM wind (60)
		High wind caused damage to screened rooms and carpports. Trees were downed at a golf course.							
Indian River Co., Sebastian	24	1930EST			0	0	3	0	TSTM wind (55)
		High wind blew down a tree which destroyed a trailer.							
Citrus Co., Inverness	24	2230EST			0	0	5	0	TSTM wind (60)
Pinellas Co., Clearwater	24	2230EST			0	0	4	0	TSTM wind (55)
Pasco Co., Dade City	24	2230EST			0	0	4	0	TSTM wind (55)
Hernando Co., Brooksville	24	2230EST			0	0	4	0	TSTM wind (55)
Hillsborough Co., Plant City	24	2330EST			0	0	4	0	TSTM wind (55)
		High wind damaged nine houses and several trees in Inverness. In Clearwater high wind blew a screen porch over a house. High wind also blew down several trees and power lines. High wind damaged sheds and carpports in Dade City. In Brooksville a house was severely damaged and a shed was destroyed and several cars were damaged by high wind. The roofs of several businesses were blown off in Plant City.							
Monroe Co., Key West(22mi ENE)	25	1035EST			0	0	0	0	TSTM wind (55)
Monroe Co., Marathon	25	1108EST			0	0	0	0	TSTM wind (55)
		High wind from a thunderstorm was reported in the lower keys.							
Broward Co., Hallandale(3mi W)	27	1430EST	1.0	30	0	0	4	0	Tornado (F0)
Broward Co., Coral Springs	27	1445EST	3.0	30	0	0	5	0	Tornado (F1)
to Palm Beach Co., Boca Raton	27	1505EST			0	0	0	0	Hail (1.5)
27	1500EST				0	0	0	0	Hail (1.5)
		A tornado near Hallandale downed trees, destroyed utility sheds and downed power lines. A second tornado moved from Coral Springs to Boca Raton. Several trees were downed, screened porches were destroyed, sheds and fences were damaged, and minor damage to a house was reported. Hail 1.5 inches in diameter was reported.							
9 GEORGIA									
Terrell County, 6N Dawson	04	1330EST			0	0	?	?	TSTM Wind
		Thunderstorm winds downed 24 pecan trees and many other trees in and around the community of Pleasant Hill. An oak tree fell on a house, causing several thousand dollars in damage. Traffic was blocked as trees fell across Georgia Highway 45. Several other homes suffered minor damage due to the wind and wind blown debris.							
Clayton County, Ellenwood	10	0915EST			0	0	5	0	Lightning
		Lightning caused 3 house fires in Ellenwood. One of the homes was heavily damaged.							
Baker County, 1W Newton	10	1740EST			0	0	?	?	Hail (0.75)
	10	1740EST			0	0	?	?	TSTM Wind
		Thunderstorm winds downed two large trees across Georgia Highway 216 just west of Newton.							
Colquit County, Funston	10	1820EST							Funnel Clouds
		Two funnel clouds were sighted near Funston.							
Colquitt County, Funston	10	1825EST	0.1	50	0	0	?	?	Tornado (F0)
		A tornado touched down briefly in Funston and downed or uprooted several trees and knocked a mobile home off its foundation. Several powerlines were downed by the storm.							
Irwin County, Ocilla	10	1830EST			0	0	?	?	TSTM Wind
		Thunderstorm winds downed large trees blocking Georgia Highways 90 and 32.							
Mitchell County: Camilla	10	1830EST			0	0	?	?	Hail (1.75)
Camilla & Baconton	10	1830EST			0	0	?	?	TSTM Wind
		Thunderstorm winds downed several trees in both cities and hail damaged cars and broke windshields and windows in Camilla.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED* DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
— GEORGIA									
Thomas County, Thomasville	10	1900EST			0	0	?	0	TSTM Wind
			Thunderstorm winds blew windows out of a shopping center in Thomasville.						
Lee County, Leesburg	14	1600EST			0	2	0	0	Lightning
			An employee of a manufacturing company was injured by lightning when the building he was working in was struck. The sheriff was injured by lightning as he was closing the door to the courthouse and lightning struck a tree next to the courthouse.						
DeKalb County, Lithonia	16	1310EST			1	4	4	0	TSTM Wind (43)
			Thunderstorm wind gusts to around 50 mph collapsed an apartment unit under construction. One construction worker was killed and 4 others injured while taking shelter from the storm in the partially completed unit. The building had a roof but the framing was exposed with no siding on the building. The wind hit the side of the building. Other units in the same area were not damaged and trees near the building showed only very minor wind damage. M230						
Fayette County, Fayetteville	16	1350EST			0	0	?	?	Hail (1.75)
Clayton County, Jonesboro	16	1412EST			0	0	?	?	Hail (0.75)
Clarke County, Athens	16	1435EST			1	1	0	0	Lightning
			A 19 year-old student was killed and another injured on the 4th green of the University of Georgia golf course. The man killed was holding the flagstaff when struck by lightning. M190						
Henry County, Locust Grove	16	1442EST			0	0	?	?	Hail (1.75)
Burts County, Jackson	16	1502EST			0	0	?	?	Hail (0.75)
Spalding County, Griffin	16	1510EST			0	0	?	?	Hail (1.00)
Oglethorpe County, Moxeys	16	1515EST			0	0	?	?	Hail (0.75)
Greene County, Bairdstown	16	1515EST			0	0	?	?	Hail (0.75)
Pike County, 55W Zebulon	16	1525EST			0	0	?	?	Hail (1.75)
Franklin County, Carnsville	16	1530EST			0	0	0	4	Lightning
			Lightning killed 24 head of cattle under a tree near Carnsville.						
Pike County, Meansville	16	1550EST			0	0	?	?	Hail (0.75)
Sumter County, 2N Flintside	16	1830EST			0	0	?	?	TSTM Winds
	16	1830EST			0	0	?	?	Hail (1.00)
			Thunderstorm winds downed trees in eastern Sumter County near Lake Blackshear.						
Telfair County, 1S McRae	23	1805EST			0	0	?	?	Hail (1.75)
Irwin County, 1N Ocilla	23	1820EST			0	0	?	?	Hail (1.75)
Ben Hill County, 2S Fitzgerald	23	1820EST			0	0	?	?	Hail (1.75)
Telfair County, 1E Jacksonville	23	1825EST			0	0	?	?	TSTM Wind
			Thunderstorm winds downed a telephone pole and large tree limbs that broke power lines east of Jacksonville.						
Emanuel County, 3E Twin City	23	1900EST			0	0	3	5	Hail (1.75)
	23	1900EST			0	0	4	?	TSTM Wind
			Thunderstorm winds downed trees and destroyed a machine shed east of Twin City. Hail severely damaged crops in the same area.						
Fulton County, East Point	24	1115EST			1	0	0	0	Lightning
			A 25 year-old man waiting for a bus under a poplar tree was struck and killed by lightning. He was holding metal power tools, drop cord, and a large carpenter level. M250						
Henry County, 3W Hampton	24	1314EST			0	0	?	?	Hail (1.75)
Hampton	24	1326EST			0	0	?	?	Hail (1.00)
Monte County, Forsyth	24	1425EST			0	0	?	?	Hail (1.00)
Bolingbroke	24	1425EST			0	0	?	?	TSTM Wind
			Thunderstorm winds downed power lines near Bolingbroke.						
Bibb County, Macon	24	1440EST			0	0	?	?	Hail (1.75)
	24	1440EST			0	0	?	?	TSTM Wind
			Thunderstorm winds downed trees onto power lines in north Bibb County.						
Jones County	24	1450EST			0	0	?	?	TSTM Wind
			Thunderstorm winds downed numerous trees and power lines across the county.						

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					KILLED	INJURED	PROPERTY	CROPS	
— GEORGIA									
Jasper County	24	1510EST			0	0	?	?	TSTM Wind
			Thunderstorm winds downed trees and power lines at scattered locations.						
Houston County, Warner Robins	24	1510EST			0	0	?	?	Hail (1.00)
Peach County, Byron	24	1510EST			0	0	?	?	Hail (1.00)
Houston County, Bonaire	24	1530EST							Funnel Cloud
			A funnel cloud was sighted near Bonaire.						
Twiggs County, Huber	24	1540EST			0	0	?	?	Hail (1.00)
	24	1636EST			0	0	?	?	TSTM Wind
			Trees were downed by thunderstorm winds in Huber.						
Pulaski County	24	1605EST			0	0	?	?	TSTM Wind
			Thunderstorm winds downed power lines in the southwest part of the county and a tree was blown down across Georgia Highway 26.						
Toombs County, 10S Lyons	24	1615EST			0	0	?	?	TSTM Wind
			Trees were downed by thunderstorm winds.						
Colquitt County, 8NW Moultrie	24	1618EST			0	0	?	?	TSTM Wind
	24	1618EST			0	0	?	?	Hail (1.75)
			Thunderstorm winds downed two trees and numerous large tree limbs just off Georgia Highway 133 northwest of Moultrie.						
Richmond County, Augusta	24	1630EST			0	0	1	?	TSTM Wind
			Thunderstorm winds caused widespread, although mostly minor, damage in the Augusta area. Several power lines were downed and three utility poles snapped by high winds. Several trees were uprooted and one fell on a house.						
Twiggs County, Huber	24	1636EST			0	0	?	?	TSTM Wind
			Trees were downed by thunderstorm winds in Huber.						
Tift County:									
1NW Tifton	24	1645EST			0	0	5	?	Hail (2.75)
Chula	24	1650EST			0	0	5	?	Hail (1.75)
Chula	24	1650EST			0	0	?	?	TSTM Wind
			Several Pecan trees were uprooted by thunderstorm winds near Chula.						
Ben Hill County:									
Fitzgerald	24	1700EST			0	0	?	?	Hail (1.75)
Fitzgerald	24	1700EST			0	0	?	?	TSTM Wind
Bowens Mill	24	1720EST			0	0	?	?	Hail (1.00)
			A few trees and many large limbs were downed in Fitzgerald by thunderstorm winds. Many cars were damaged by hail up to golfball size.						
Irwin County, Mystic	24	1720EST			0	0	?	?	Hail (2.50)
Worth County, 3N Sylvester	24	1725EST			0	0	?	?	TSTM Wind
	24	1725EST			0	0	?	?	Hail (1.75)
			Several large tree limbs were downed by thunderstorms winds north of Sylvester.						
Dougherty County, 10S Albany	24	1735EST			0	0	?	?	Hail (0.75)
Turner County, 4W Ashburn	24	1745EST			0	0	?	?	Hail (0.75)
Chatham County:									
Savannah	24	1807EST			0	0	?	?	Hail (1.50)
2E Savannah	24	1830EST			0	0	?	?	Hail (2.00)
5E Savannah	24	1830EST			0	0	?	?	Hail (2.50)
Tattnell County, 3E Glenville	24	1830EST			0	0	5	0	TSTM Wind
			A vacant mobile home was destroyed by thunderstorm winds.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	
10 IDAHO									
Kootenai Co., Coeur d'Alene	13	0400PST			0	0	3	0	High Wind
	A fast-moving cold front brought estimated winds of 47 mph on the Palouse. Wind gusts of 42 knots were measured at the Spokane airport. There were a few damaged trees and power lines.								
Nez Perce Co., Lewiston	16	1900PST			0	0	3	0	High Wind (43)
	A cold front produced 43 knot wind gusts in the Lewiston - Clarkston valley. There were a few damaged trees and blown down power lines.								
Bannock Co., Pocatello	25	1705MST			0	0	0	0	TSTM Wind (49)
Bonneville Co., Idaho Falls	25	1725MST			0	0	0	0	TSTM Wind (54)
Madison Co., Rexburg	25	1730MST			0	0	0	0	TSTM Wind (43)
	Thunderstorms moved through the Upper Snake River Valley. No damage reports were received.								
ID2006	29	0000-1300MST			0	0	0	0	Heavy Snow
	Spotty areas of heavy snow fell in the West Central Mountains. Nine inches covered the Bogus Basin ski resort.								
ID2007	30	1600-2400MST			0	0	0	0	Heavy Snow
	Eight inches of snow fell on Galena Summit.								
11 ILLINOIS									
6E Kankakee Kankakee Co	8	1400-1730CST			0	8	?	0	High wind
	A small section of Route 17 in Kankakee county was closed as strong winds blew freshly plowed soil and reduced visibilities to near zero. The reduced visibilities caused a 10-car and a 7-car mishap just before the road was closed.								
Mercer Co, Aledo	8	1430CST			0	0	4	0	Tstm wind
	Strong thunderstorm winds damaged two businesses, downed trees and power lines in Aledo. Spotty wind damage was also reported in the northwest half of Mercer County.								
Hancock Co: Near Warsaw	8	1435CST			0	0	?	0	Tstm wind (52)
Hamilton	8	1440CST			0	0	4	0	Tstm wind
	Strong winds caused scattered areas of damage to the Hamilton area. The damage included a couple of barns destroyed on Route 136 and damage to a few houses and some windows broken out of mobile homes in a trailer court.								
Rock Island Co: Moline	8	1455CST			0	0	?	0	Tstm wind (52)
	Winds recorded at the National Weather Service Moline reached a peak gust of 60 mph and 5/8 inch hail fell during a severe thunderstorm.								
Milan	8	1455CST			0	0	4	0	Tstm wind
	Severe thunderstorms downed trees and power lines in Milan.								
Cook Co, Bridgeview	8	1455CST			0	0	4	0	Tstm wind
	Strong winds tore off the roof of an apartment building at 7854 West 80th street in Bridgeview. A building at 7601 West 80th also lost part of a roof.								
Cook-Du Page Co, Burr Ridge	8	1500CST			1	0	4	0	Tstm wind
	A Burr Ridge man was killed when a wind blown tree limb smashed through the windshield of his car and caused him to lose control of his vehicle. At 79th and Madison streets part of a roof was blown off a Lake Side building. mtlv								
Adams Co, Liberty	8	1500CST			0	0	5	0	Tstm wind
	High winds damaged a building near Liberty. Also, a few farms south of Liberty sustained damage to sheds, barns and one grain bin.								
ILLINOIS									
McDonough Co, 4S Macomb, Bushnell	8	1500CST			0	0	4	0	Tstm wind
	The roof a home 4 miles south of Macomb was badly damaged by high thunderstorm winds. Trees were reported down in Bushnell.								
Cook Co, Midway Airport	8	1512CST			0	0	?	0	Tstm wind (50)
	Wind gusts were measured up to 58 mph at Midway Airport.								
Rock Island Co, Whiteside Co: 4NE Cordova to near Albany	8	1515CST	6	50	0	0	4	0	Tornado (F1)
	A tornado caused a narrow damage path from 4 miles northeast of Cordova to Albany. Some newer barns along the path were totally destroyed.								
Henry Co, Woodhull	8	1520CST			0	0	?	0	Tstm winds (56)
Morgan Co	8	1520CST			0	0	4	0	Tstm wind
	A double wide mobile home was broken apart by high winds.								
Jo Daviess Co, East Dubuque	8	1522CST			0	0	?	0	Tstm wind (52)
Rock Island Co, Moline	8	1524CST			0	0	?	0	Hail (0.88)
Bureau Co, Princeton	8	1530CST			0	0	5	0	Tstm wind
	Strong downburst winds damaged several farms in the area. A number of trees, sheds and power lines were blown down.								
Jo Daviess Co, 6S Stockton	8	1530CST			0	0	4	0	Tstm wind
	Strong winds destroyed a large shed. Ridge Road was completely blocked by downed power lines and debris. A home in the area was reported to have lost part of its roof.								
Ogle Co, 3SE Oregon	8	1530CST	0.2	50	0	0	4	0	Tornado (F1)
	A tornado touched down at Daysville and Lowden roads, about 3 miles southeast of Oregon. Several large trees were uprooted. Part of an old iron fence of the Daysville Cemetary was badly damaged. The tornado continued to move to Rasmussen Road where a tree fell onto a house.								
Jo Daviess Co, Galena	8	1539CST			0	0	?	0	Tstm wind (52)
Carroll Co, Milledgeville	8	1539CST			0	0	2	0	Tstm wind
	Strong thunderstorm winds blew down some trees.								
Union Co, Anna	8	1540CST	0.25	15	0	0	3	0	Tornado (F1)
	The tornado first touched down in the Jefferson Street area of south Anna and then skipped northward for 1/4 mile and did damage at East Chestnut, Monroe, Warren, Hendra streets and at Kohler Avenue. One mobile home was twisted and destroyed and two other homes in Anna had much roof damage. Some trees were uprooted.								
Stephenson Co, Dakota	8	1545CST			0	0	5	0	Tstm wind
	The west half of the roof of the Dakota primary school was torn off by high winds. The Meadows shopping center lost a 80 foot section of a block wall that was under construction. Strong winds were also reported in the northwest part of Stephenson County that blew down some trees.								
Pike Co, Perry, Griggsville	8	1545CST			0	0	4	4	Hail (1.75)
	Golfball size hail damaged cars, home windows and did some damage to recently planted crops.								
Morgan Co, Heredosia, Chapin	8	1550CST			0	0	?	0	Hail (1.0)
Cass Co, Beardstown	8	1554CST			0	0	4	0	Tstm wind
	Trees and power lines were blown down by strong winds.								
Mason Co, Manito	8	1600CST			0	0	4	0	Tstm wind
	A roof was blown off a house west of Manito.								
Stark Co, Toulon	8	1600CST			0	0	4	0	Tstm wind
	Strong thunderstorm winds blew part of a roof off a home and knocked down some trees.								
Fulton Co, Canton	8	1600CST			0	0	?	0	Tstm wind
	Strong winds toppled 26 utility poles near the town of Canton.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

ILLINOIS									
Calhoun Co, Hamburg, Kampsville	8	1610CST			0	0	6	0	Tstm wind
A severe thunderstorm with a number of strong downbursts crossed out of Lincoln County, Missouri and then move east into Calhoun County, Illinois, passing between Hamburg and Kampsville. The storm then moved into Greene County. (refer to Greene County report.) In Calhoun County considerable damage occurred to 20 farm out-buildings and to 25 homes.									
Tazewell Co, Pekin	8	1610CST			0	0	5	0	Tstm wind
Strong winds severely damaged a block/brick beach house in north Pekin. Two homes were also damaged by falling trees.									
Cook Co, O'Hare Intl' Airport	8	1612CST			0	0	?	0	Tstm wind (48)
A few aircraft on the ground were reported to have sustained minor damage caused by high winds.									
All Peoria Co.	8	1617CST			0	?	6	0	Tstm wind
Very high winds reportedly damaged up to 100 homes and farm buildings throughout Peoria County. In Peoria the office building of WCL lost part of its roof. Peak winds measured at Peoria Airport were recorded at 55 mph at 4:17 pm CST.									
Lee Co, E Dixon	8	1617CST			0	0	0	0	Funnel Cloud
A National Weather Service cooperative observer reported a funnel cloud.									
Lee Co, Ashton	8	1620CST			0	0	4	0	Tstm wind
A house was extensively damaged by high winds.									
Lee Co, Dixon	8	1620CST	0.1	15	0	0	4	0	Tornado (F0)
A tornado briefly touched down and blew a large tree onto a house and caused damage to several roofs in Dixon.									
Tazewell Co, East Peoria	8	1620CST			0	?	6	0	Tstm wind
Strong winds and downbursts caused up to 1.5 million dollars damage in East Peoria. Winds were estimated well over 70 mph. 33 homes were severely damaged. Some of the heaviest damage occurred in Fond Du Lac Heights and in a two block stretch from Clayton Court to near Oakwood Drive. Parts of roofs were blown off of homes and a couple of garages were destroyed. A restaurant located on Route 116 along Caterpillar Drive lost its entire roof while 70 persons were dining but no injuries occurred.									
Peoria Co, Marquette Heights, Peoria	8	1625CST			0	0	4	0	Tstm wind
High winds damaged 25 large trees, some were uprooted; 10 homes with roof damage; and 3 cars damaged by falling trees.									
Fulton Co, Lewistown	8	1628CST			0	0	4	0	Tstm wind
Strong winds downed utility poles along Route 78 and trees were reported down in Lewistown.									
Peoria Co, 4ENE Peoria	8	1630CST			0	1	?	0	Tstm wind
One person was injured as strong winds knocked down tree limbs.									
Greene Co, 3N Elred, Near Hillview, White Hall	8	1630CST			0	?	6	0	Tstm wind
Very high winds and strong downbursts did nearly one million dollars damage in Greene County. The path of damage extended from the Illinois River on the west to Greene county's extreme northeast portion. The damage was mostly in rural areas although the southeast portion of White Hall was hit. An estimated 25 farms sustained extensive damage. Damage ranged from broken windows to total destruction to silos, grain bins, machine sheds etc. Several rural homes had damage to roofs, sidings and windows. Down trees and power lines blocked some roadways in the county.									
Jersey Co, 7SW Jerseyville	8	1640CST			0	0	4	0	Tstm wind
A barn was destroyed by high winds.									
Morgan Co, Near Murrayville	8	1640CST			0	0	3	0	Tstm wind
Trees were uprooted and a metal building was destroyed by high winds.									
Winnebago Co, Rockford and vicinity	8	1640CST			0	?	6	0	Tstm wind (70)
Extremely high winds in the Rockford area did considerable damage to the area. The Weather Service Office at the Rockford Airport measured wind gusts up to 81 mph at 4:43 pm CST. Damage at the Rockford Airport included a roof almost completely off a building; 4 small aircraft badly damaged; a large car show disrupted with large tents shredded. At the car show, one person was trapped in a portable toilet that the wind blew over but was rescued shortly afterward uninjured; some car windows were broken. Throughout Rockford widespread and numerous trees and power lines were reported blown down. Some trees were uprooted. Many homes in the area had shingle damage and some homes and businesses had additional roof damage.									

ILLINOIS									
Morgan Co, 1.5S Nortonville	8	1641CST			0	0	4	0	Tstm wind
Strong winds overturned a motor home and scattered debris for over 1/4 mile.									
Menard Co, Petersburg	8	1642CST			0	0	?	0	Tstm wind
High winds uprooted some trees.									
Woodford Co, 1NE Goodfield	8	1645CST			0	0	4	0	Tstm wind
Wind gusts estimated 80 to 90 mph destroyed 3 trailers and heavily damaged 5 others at the Timberline Trailer Court. In other parts of the county some damage occurred to homes.									
Winnebago Co, SE Rockford	8	1647CST			0	0	0	0	Funnel cloud
An off-duty National Weather Service employee observed a funnel cloud 5 miles east of Rockford. Considerable blowing dust and a rapid pressure fall at the time was noted.									
Boone Co, 18ENE Rockford	8	1655CST			0	0	4	0	Tstm wind
High winds blew over a semi truck 18 miles east-northeast of Rockford.									
Morgan Co, Nortonville to Waverly	8	1657CST			0	0	5	0	Tstm wind
Severe thunderstorms produced strong downbursts and caused some property damage along a path about 1/4 mile wide and 15 miles long from Nortonville to Waverly. Some rural homes were damaged and tree and power lines were blown down.									
Marshall Co, Toluca	8	1700CST			0	0	4	0	Tstm wind
Strong winds blew down six telephone poles in a row just north of Toluca.									
Grundy Co, Grinter-Woods Roads (3NW Gardner)	8	1700CST	1.0	10	0	0	5	4	Tornado (F1)
A tornado was on the ground for 1 mile in the area of Grinter and Woods roads. One barn was completely destroyed and two barns were heavily damaged. Numerous automobiles were damaged by falling trees and branches. New crops in the fields were destroyed and power lines and utility poles were blown down.									
Sangamon Co, Springfield area, Riverton, Buffalo, Mechanicsburg	8	1707- 1722CST			0	0	5	0	Tstm wind
High winds blew off the roof of an apartment building 2 miles west of Springfield. East of Springfield, in Lake Forest Estates and White Bell Acres, high winds estimated over 80 mph snapped utility poles and demolished a few nearly completed homes. High winds destroyed a large aluminum building in Riverton. In Mechanicsburg home windows were broken and a large grain bin was destroyed. Winds blew down a 1/2 mile long section of transmission lines at Old Rochester Road and Interstate 72 at the Clearlake exit.									
Madison Co, Edwardsville	8	1710CST			0	0	3	0	Tstm wind (54)
Wind gusts to 62 mph downed some large tree limbs.									
La Salle Co, Ransom	8	1715CST			0	0	5	0	Tstm wind
Very high winds bent over two 245,000 volt transmission towers south and east of Ransom.									
Macoupin Co, Mt. Olive	8	1715CST			0	0	4	0	Tstm wind
A mobile home south of Mt. Olive on Poplar Street was rolled over and destroyed.									
Sangamon Co, Rochester	8	1718CST	0.1	50	0	0	5	0	Tornado (F2)
The tornado touched down at Lake Springfield off East Lake Shore Drive in Rochester. One home as destroyed and 3 others under construction were blown down.									
Dekalb Co, Cortland	8	1720CST			0	0	0	0	Funnel Cloud
A funnel cloud was spotted by the county fire department.									
La Salle Co, SE Ottawa	8	1720CST	0.5	50	0	2	5	0	Tornado (F1)
A tornado dipped down at the Woodcrest Apartments on East McKinley Road at the southeast edge of Ottawa near Shepherd Junior High School. A roof from a three-story building and at least 5 other buildings in an Ottawa apartment complex were damaged. The tornado caused considerable roof damage and broken windows at Windmere Estates. 25 cars had broken-out windows.									
Livingston Co, Pontiac	8	1727CST			0	0	4	0	Tstm wind
A peak wind gust was measured at 75 mph by a cooperative observer. Some scattered damage was reported in Pontiac caused by high wind.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	

ILLINOIS									
Macon Co, Decatur	8	1730CST	0	0	4	0	0	Tstm wind (52)	
Numerous trees, tree limbs and power lines were knocked down by high winds. Wind gusts at Decatur Airport were measured up to 60 mph.									
MHenry Co, Marengo	8	1740CST	0	0	0	0	0	Funnel cloud	
A Skywarn spotter reported a funnel cloud at Interstate 90 and Route 20 Marengo.									
St. Clair Co, Freeburg	8	1741CST	0	0	?	0	0	Hail (0.75)	
Wind gusts to 55 mph and hail to 3/4 inch in diameter occurred in Freeburg.									
Randolph Co, Prairie Du Rocher	8	1745CST	0	0	?	0	0	Hail (1.75)	
High winds downed trees and power lines, destroyed 2 large sheds, and blew out some windows on homes.									
De Witt Co, Weldon	8	1751CST	0	0	4	0	0	Tstm wind	
High winds downed trees and power lines, destroyed 2 large sheds, and blew out some windows on homes.									
Will Co, Wilmington to Elwood to 2N New Lenox	8	1800CST	16	60	0	1	5	0	Tornado (F1)
The tornado first touched down near Interstate 55 and Lorenzo Road or just north of Wilmington. It then moved to the northwest outskirts of Elwood then continued northeast to Route 53 and Milledale Road and finally to Route 6 and Cedar Roads which is about 10 miles east of Joliet. The roof of a lumber yard collapsed on the southwest corner of Route 53 and Milledale Road. At the intersection of Milledale Road and Raymond Street a poorly constructed pre-fabricated house was badly damaged. The roof was blown off and the exterior walls were pushed into the interior of the dwelling. A house next door at 14 Raymond Street sustained garage damage. At 15 Raymond, about 1/2 block to the east, some TV antennas were bent over and considerable damage was done to a house. About 1/4 mile east-northeast of 15 Raymond Street, a farm located on the east side of Route 53 and Milledale Road sustained considerable damage. Shingles were torn off the farm house roof, two trees were uprooted and two storage buildings were demolished. Two eyewitnesses to the tornado at the farm were interviewed by the National Weather Service. The eyewitnesses actually observed the tornado as it uprooted the trees and flattened the storage buildings. A next door neighbor also watched the tornado as it moved across the farm. The only additional damage on the tornado's 16 mile path and at the end of its track was located at the intersection of State Route 6 and Cedar Roads where minor damage was noted.									
Will Co, I-80 and Larkin Road SW Joliet	8	1800CST	2	40	0	3	5	0	Tornado (F1)
A small tornado touched down near Interstate 80 and Larkin Road in southwest Joliet. The tornado traveled about 2 miles northeast before dissipating. Some damage to signs were noted near I-80 and tree damage was noted along a northeasterly path from that point to the Woodbridge condominium complex located at the intersection of Stryker and Woodbridge Roads. The roof of one of the condominium buildings was carried away by the tornado. Except for additional tree damage the only other damage noted was to store windows in the West Side Shopping Center at Jefferson and Reed Roads which is 1 1/2 miles east of I-80 and Larkin Roads.									
Du Page Co, Carol Stream	8	1810CST	0	0	0	0	0	Funnel Clouds	
Du Page County ESDA observed two funnel clouds moving northeast.									
Perry Co, Pickneyville and Conant	8	1810CST	0	0	?	0	0	Hail (0.75)	
Hail up to 3/4 inch in diameter and wind estimated over 60 mph caused some tree damage at Sparta and over a few other parts of Randolph County.									
Randolph Co, Sparta	8	1825CST	0	0	3	0	0	Tstm wind, Hail (0.75)	
Hail up to 3/4 inch in diameter and wind estimated over 60 mph caused some tree damage at Sparta and over a few other parts of Randolph County.									
Cook Co, Franklin Park	8	1830CST	0	0	5	0	0	Tstm wind	
Very high winds and strong downbursts caused extensive damage along a path northeastward through Franklin Park. The strong winds heavily damaged and caused the roof of a factory to collapse at 9150 West Gage Avenue. The high winds downed a 90 foot radio tower at 9545 West Belmont. Roofs were damaged on the 9200 and 9500 blocks of west Belmont and the 9100 and 9300 blocks of west King. Some businesses in Franklin Park had windows broken out by the high winds.									
Washington Co, Dubois	8	1835CST	0	0	2	0	0	Tstm wind	
Trees were reported down at Dubois.									
Vermilion Co, 2N Danville	8	1845CST	0	0	5	0	0	Tstm wind	
High winds destroyed a house trailer and ripped apart a former grocery store.									

ILLINOIS									
Vermilion Co, Fithian	8	1845CST	0.5	50	0	0	4	0	Tornado (FO)
Extensive damage occurred to tree limbs and some damage to roofs occurred throughout an area 50 yards wide and 1/2 mile long through Fithian.									
12 INDIANA									
IN2001-002 Extreme north- west and north- central Indiana	8	1100 to 2200 EST	0	0	?	?	?	High Wind	
Strong gradient winds picked up dust, reducing visibilities to near zero in some areas. A ten-car chain reaction accident occurred on U.S. 6 near Napanee, Indiana, causing the highway to be closed for several hours. Several trees and tree limbs were downed, disrupting power to more than 5000 customers. The peak wind at WSO SBN was 46 mph at 1744 EST.									
Warren County, 3S Ambia Independence to Green Hill	8	2010 EST	0	0	4	?	?	Tstm Wind	
Thunderstorm winds blew a two-story garage off its slab foundation, blew out a kitchen window, and tore the roof off a storage barn in northwest Warren County. The Warren County Sheriff said damage also occurred in a 5 mile line extending northeast from near Independence. The storm destroyed a tool shed and a hay shed and caused other scattered damage.									
Benton County, Talbot Boswell	8	2020 EST	0	0	3	?	?	Tstm Wind	
Very strong straight-line winds caused a tool shed to collapse in Talbot. Soon afterward damage occurred in Boswell where the roof was torn off a barn and an empty 10,000 bushel grain bin was picked up by the wind and smashed. Trees were also downed.									
Boone County, Lebanon	8	2142 EST	0	0	?	?	?	Tstm Wind	
Thunderstorm winds damaged a building in Lebanon.									
Huntington County, Warren	9	1131 EST	0	0	0	0	0	Hail (1.0)	
Madison County, 1SE Markleville	9	1146 EST	0	0	?	?	?	Hail (1.0)	
Wells County, 1S Bluffton	9	1200 EST	0	0	3	0	0	Tstm Wind	
Thunderstorm winds blew down a 60 foot block wall.									
Allen County, 1E Harlan	9	1215 EST	0	0	0	0	0	Hail (0.75)	
Decatur County, 1W Greensburg	9	1249 EST	0	0	?	?	?	Hail (1.0)	
Jasper County, Wheatfield	15	1548 EST	0	0	?	?	?	Hail (1.75)	
Starke County, Knox Knox	15	1610 EST 1626 EST	0	0	?	?	?	Tstm Wind, Hail (1.75) Tstm Wind, Hail (1.75)	
Golf ball size hail and wind estimated at 60 mph downed trees and power lines at Knox.									
Noble County, Ligonier and Rome City	15	1705- 1715 EST	0	0	3	0	0	Tstm Wind	
Winds of 60 to 70 mph were reported in Ligonier and Rome City. Trees were downed across northern Noble County.									
Elkhart County, Jintown	15	1715 EST	0	0	?	?	?	Tstm Wind	
Thunderstorm winds downed numerous trees at County Road 3 near Jintown.									
Lagrange County, Adams Lake	15	1720 EST	0	0	3	0	0	Tstm Wind	
Winds of 65 to 70 mph were reported, and trees were downed in the southeast part of the county.									
Steuben County, Angola	15	1740 EST	0	0	4	0	0	Tstm Wind	
In Angola winds were clocked to 83 mph. A window was blown out of a house. Numerous trees and power lines were downed across the western and central parts of the county.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS		
13 IOWA										
Montgomery County, Red Oak	07	0520 CST			0	0	3	0	Lightning	Lightning struck a house in Red Oak, causing minor damage.
Polk County, 3S Ankeny	07	1035 CST			0	0	3	2	Hail (0.75)	An isolated thunderstorm developed over Central Iowa. There was considerable small hail. A report of dime-size hail was received from south of Ankeny.
Crawford County: Vail	07	1842 CST			0	0	4	3	Hail (2.00)	
1S Charter Oak	07	1945 CST	2.0	20	0	0	3	2	Tornado (F0)	
Emmet County: Maple Hill	07	2025 CST			0	0	3	3	Hail (1.50)	
Armstrong	07	2025 CST			0	0	3	3	Hail (2.00)	
Woodbury County, Sloan	07	2025 CST			0	0	3	3	Hail (1.25)	
Crawford County, Vail	07	2030 CST			0	0	3	3	Hail (1.75)	
Pottawattamie County: 5SW Crescent to 4 1/2 NNE Crescent	07	2210 to 2215 CST	7.2	75	0	0	6	3	Tornado (F2)	
Honey Creek	07	2210 CST			0	0	3	2	Hail (1.00)	
Shelby County, Panama	07	2230 CST			0	0	3	2	Hail (1.75)	
Crawford County: Manilla	07	2259 CST			0	0	3	3	Hail (1.00)	
Manilla	07	2320 CST			0	0	3	3	Hail (0.75)	
O'Brien County, Pringhar	07	2338 CST			0	0	4	0	Tstm Winds (70)	
Woodbury County: Sioux City	07	2340 CST			0	0	4	0	Tstm Winds	
Pierson	07	2340 CST			0	0	4	0	Tstm Winds (60)	
Webster County, Badger	08	0330 CST			0	0	3	3	Hail (1.75)	
Clay County, Langdon	08	0335 CST			0	0	3	0	Lightning	
<p>A large area of thunderstorms developed during the evening hours of the 7th, and continued into the early morning hours of the 8th. A tornado touched down about a mile south of Charter Oak. It moved northeast and lifted within a few minutes. Another tornado touched down west of Crescent, and moved northeast to near Honey Creek. This tornado did more damage, with buildings being damaged and considerable tree and power line damage in its path. Most of the severe weather with this area was from hail and high winds. One to two inch diameter hail was common. Strong winds struck Northwest Iowa, downing many trees and utility poles. The Sioux City Airport had a 67 MPH gust. Other reports of winds up to 80 MPH were received. Lightning struck a hog confinement building at Langdon. This resulted in the death of 1300 hogs.</p>										
Ringgold County, Mt. Ayr	08	0950 CST			0	0	3	0	Tstm Winds (50+)	
Union County: Afton	08	1000 CST			0	0	4	3	Hail (1.75)	
2SE Creston	08	1000 CST			0	0	4	3	Hail (1.75)	
Madison County, St. Charles	08	1023 CST			0	0	0	0	Funnel Cloud	
Boone County: Boone	08	1030 CST			0	0	3	2	Tstm Winds (50+)	
Madrid	08	1035 CST			0	0	3	2	Tstm Winds (50+)	
Polk County, Des Moines	08	1046 CST			0	0	4	2	Hail (0.75)	
Warren County, 6S Norwalk	08	1046 CST			0	0	3	3	Hail (0.75)	
Franklin County, Latimer	08	1051 CST			0	0	3	3	Hail (0.75)	
Warren, Marion, and Jasper Counties; Hartford to 2S Prairie City	08	1056 CST to 1120 CST	11.0	30	0	0	5	3	Tornado (F1)	Intermittent Path
Warren County: Indianola	08	1100 CST			0	0	4	4	Hail (0.75)	
Carlisle	08	1100 CST			0	0	4	3	Hail (0.75)	
Jasper County: 4W Prairie City	08	1115 CST			0	0	5	4	Hail (2.50)	
Colfax	08	1123 CST			0	0	5	4	Hail (2.00)	
5W Newton	08	1128 CST			0	0	4	4	Hail	
Mingo	08	1130 CST			0	0	5	4	Tstm Winds (70)	
Decatur County, 2SW Davis City	08	1130 CST			0	0	4	3	Tstm Winds (50+)	
Hardin County, Alden	08	1130 CST			0	0	4	0	Tstm Winds (50+)	
Jones County, Anamosa	08	1150 CST			0	0	5	3	Hail (1.75)	
Marshall County, Marshalltown	08	1155 CST			0	0	4	3	Tstm Winds (50+)	
Lucas County, Chariton	08	1210 CST			0	0	6	5	Hail (1.75)	
IOWA										
Wayne County, 2S Corydon to 2SE Corydon	08	1210 CST	2.0	30	0	0	5	3	Tornado (F1)	
Tama County, Garwin	08	1215 CST			0	0	4	4	Hail (2.00)	
Butler County, 3N Shell Rock	08	1216 CST			0	0	4	3	Tstm Winds (60)	
Marion County, Knoxville	08	1220 CST			0	0	3	3	Hail (0.75)	
Wayne, Appanoose, Davis, and Wapello Counties; 2SW Seval to 5SW Ottumwa	08	1225 CST to 1310 CST	47	45	0	0	5	4	Tornado (F2)	Intermittent Path
Bremer County, 1E Plainfield	08	1228 CST			0	0	0	0	Funnel Cloud	
08 1228 CST	08	1228 CST			0	1	5	3	Tstm Winds (65)	Strong winds tore pieces of wood off a barn and blew them through the windows of a farm house. A girl was injured from the flying debris.
Black Hawk County: Waterloo	08	1225 CST			0	0	4	0	Tstm Winds (50)	
Waterloo	08	1225 CST			0	0	4	3	Hail (0.75)	
Washburn	08	1233 CST			0	0	4	3	Tstm Winds (50+)	
Bremer County, Denver	08	1235 CST			0	0	4	3	Hail (1.50)	
Chickasaw County, 8E Nashua	08	1245 CST			0	0	4	3	Tstm Winds (50+)	
Davis, Jefferson, Washington, Louisa, and Wapello Counties; 3W Bloomfield to 2W Conesville	08	1247 CST to 1412 CST	67	60	0	0	7	4	Tornado (F2)	Intermittent path. Tornado had a twin structure near Ainsworth in Washington County.
Appanoose County, Centerville	08	1250 CST			0	0	4	3	Tstm Winds (65)	
Bremer County, 10S Sumner	08	1252 CST			0	0	0	0	Funnel Cloud	
Black Hawk County: Dunkerton	08	1252 CST			0	0	5	3	Tstm Winds	
Washburn	08	1255 CST			0	0	3	3	Hail (0.75)	
Wapello County, 3S Ottumwa	08	1255 CST			0	0	5	2	Tstm Winds (65)	
Poweshiek, Iowa, and Johnson Counties; 3N Gibson to 7NE Solon	08	1258 CST to 1405 CST	59	65	0	0	6	4	Tornado (F2)	Intermittent path
Black Hawk, Buchanan Counties; 2W Fairbank to Fairbank	08	1306 CST	2.0	25	0	0	5	3	Tornado (F1)	
Mahaaska County, Keomah Village to Rose Hill	08	1306 CST to 1314 CST	6.0	40	0	0	5	3	Tornado (F1)	
Marion County, Pella	08	1307 CST			0	0	0	0	Funnel Cloud	
Iowa County, Millersburg	08	1308 CST			0	0	0	0	Funnel Cloud	
Bremer County, 3SW Oran	08	1315 CST	1.5	35	0	0	5	3	Tornado (F1)	
Fayette County: West Union	08	1315 CST			0	0	0	0	Funnel Cloud	
Kandalia	08	1315 CST			0	0	0	0	Funnel Cloud	
Keokuk, Washington, Johnson Counties; Webster to Hills	08	1316 CST to 1356 CST	36	60	0	0	6	4	Tornado (F2)	Intermittent path
Fayette County, Oelwein	08	1325 CST			0	0	3	2	Hail (0.75)	
Jefferson County: 5N Fairfield	08	1330 CST			0	0	0	0	Funnel Cloud	
Fairfield	08	1350 CST			0	0	3	2	Tstm Winds (50+)	
Van Buren County, Birmingham	08	1335 CST			0	0	4	3	Tstm Winds (50+)	
Washington County, Washington	08	1355 CST			0	0	4	3	Tstm Winds (50+)	
Henry County, Trenton	08	1358 CST			0	0	5	2	Tstm Winds (50+)	
08 1421 CST	08	1421 CST			0	0	4	0	Lightning	
Johnson County, 3NE Iowa City	08	1400 CST	1.0	20	0	0	3	0	Tornado (F0)	
Linn County, Mt. Vernon	08	1402 CST			0	0	4	3	Tstm Winds (55)	
Linn County, Lisbon	08	1405 CST			0	0	0	0	Funnel Cloud	
Johnson County, 4NW Lonetree	08	1405 CST			0	0	0	0	Funnel Cloud	
08 1405 CST	08	1405 CST			0	0	3	0	Tstm Winds (50+)	

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					KILLED	INJURED	PROPERTY	CROPS	
— IOWA —									
Muscatine County, 35W West Liberty	08	1410 CST	1.5	40	0	0	5	3	Tornado (F1)
Louisa County, Columbus Junction	08	1410 CST			0	0	3	3	Tstm Winds (55)
Muscatine County, West Liberty	08	1415 CST			0	0	5	2	Tstm Winds (60)
Delaware County: Earlville	08	1415 CST	0.5	20	0	0	4	2	Tornado (F0)
Oneida	08	1422 CST	0.5	20	0	0	4	2	Tornado (F0)
Jones County: 2NE Lisbon to Olin	08	1415 to 1430 CST	10.0	40	0	0	5	3	Tornado (F1)
Anamosa	08	1415 CST	1.0	25	0	0	4	2	Tornado (F0)
Anamosa	08	1415 CST			0	0	4	2	Hail (1.75)
Dubuque County, Dyersville	08	1420 CST			0	0	4	3	Tstm Winds (64)
Des Moines County, Pleasant Grove	08	1420 CST	1.0	30	0	0	5	3	Tornado (F1)
Muscatine County: Muscatine	08	1420 CST			0	0	3	2	Tstm Winds (60)
2N Fairport	08	1435 CST			0	0	0	0	Funnel Cloud
Scott County: Blue Grass	08	1435 CST	1.0	25	0	0	4	2	Tornado (F0)
Walcott	08	1440 CST	1.0	25	0	0	4	2	Tornado (F0)
Dubuque County, Centralia to SN Dubuque	08	1436 to 1455 CST	11.0	45	0	0	6	4	Tornado (F1)
Cedar County, 2N Rochester to 3E Tipton	08	1437 to 1446 CST	7.0	90	0	0	6	3	Tornado (F2)
									This tornado threw 2x6s through the side of a farm house.
Cedar County: Tipton	08	1437 CST			0	0	3	3	Tstm Winds (50+)
Lowden	08	1445 CST			0	0	3	3	Tstm Winds (30+)
Scott and Clinton Counties; Dixon to 2N Clinton	08	1443 to 1530 CST	32	150	0	0	7	4	Tornado (F3)
Dubuque County: Dubuque Airport	08	1443 CST			0	0	6	3	Tstm Winds (58)
1S Peosta	08	1446 CST	0.5	20	0	0	4	2	Tornado (F0)
1N Dubuque	08	1450 CST			0	0	0	0	Funnel Cloud
Scott County, Davenport	08	1447 CST			0	0	5	1	Tstm Winds (50+)
Clinton County, DeWitt	08	1510 CST			0	0	3	3	Tstm Winds (50+)
Jackson County, 1S Maquoketa	08	1530 CST			0	0	4	3	Tstm Winds (52)
<p>Mother's Day of 1988 will long be remembered for its record number of tornadoes in a single day. A total of 22 tornadoes touched down on that day. The day began quite tranquil. It was partly sunny and warm. However, the air mass over Iowa was very unstable. A cold front moved southeast across the State, setting off a line of severe thunderstorms. They first developed over South-Central into Central Iowa. The line quickly moved across the Eastern part of the State during the early and mid-afternoon hours. Severe weather first broke out in Ringgold County shortly before 10:00 AM. At first, the line only produced strong winds and hail. As the storms passed east of the Des Moines area, the first tornado touchdown occurred at Hartford. Strong winds and hail did considerable damage in Jasper County. In the town of Colfax, nearly every roof in the town needed replacing after 2-inch diameter hail pelted the area. The hail was accompanied by very strong winds. Several of the tornadoes had long path lengths. The longest was 67 miles, stretching from west of Bloomfield to west of Conesville. Damage from this tornado was in excess of \$500,000 in the Ainsworth area alone. Many of the tornadoes swept through the open country, keeping the dollar damage amount down in most cases. Some of the other damage reported include: \$1,000,000 in Wapello County, \$1,000,000 damage in the city of Chariton, \$450,000 in Jefferson County, \$250,000 in Muscatine County, \$200,000 in Bremer County, and \$100,000 in Clinton County. The strongest tornado occurred in Scott and Clinton Counties. Semi-trailer trucks were picked up and overturned west of Clinton. Another tornado, in Cedar County, drove 2x6s through the side of a farm house near Tipton. In the Dubuque area, the combination of strong thunderstorm winds and a tornado north of town caused in excess of \$800,000 in damage. A local marina suffered \$400,000 in damage. Fortunately, there were no deaths in the State due to this episode. There was one injury, however. It occurred just east of Plainfield, in Bremer County. Winds of 75 MPH tore pieces of wood off a barn and blew them through the windows of a farm house. A girl was injured by the flying debris. A short time later, winds downed the barn that was used in the filming of the movie "Country". It was located in Black Hawk County. The reports listed above are just a sampling of the severe weather reports received. Hail reports were received from nearly all Cooperative Observers across Southern and Eastern Iowa. Final dollar damage amount estimates are still not available at the time of this writing.</p>									
— IOWA —									
Pottawattamie County, Council Bluffs	19	1713 CST			0	0	3	1	Tstm Winds (63)
									A strong thunderstorm moved into the Omaha-Council Bluffs area. A downburst produced 73 MPH winds at nearby Omaha Eppley Airport. There were numerous reports of trees and power lines down, especially on the north side of Council Bluffs.
Pottawattamie County, Council Bluffs	20	1730 CST			0	0	3	0	Lightning
	20	1730 CST			0	0	3	1	Tstm Winds (50+)
									Lightning struck a power transformer in Council Bluffs knocking out power for about 50 minutes. Winds also were responsible for the downing of several trees and power lines.
Fremont County, 6W Northboro	21	1206 CST	0.5	25	0	0	4	1	Tornado (F0)
									A small line of thunderstorms moved into Southwest Iowa. A tornado touched down briefly west of Northboro, 1 mile north of the Missouri State Line. It tore the roof off a shed and blew it against the farm house. A TV antenna was twisted by the tornado.
Clay County, Langdon	21	1650 CST			0	0	4	3	Tstm Winds (50+)
									Thunderstorms produced strong winds in Clay County. A barn was demolished, as was a windmill, and a machine shed near Langdon. Three 40-foot trees were downed.
Pottawattamie County, Underwood	28	1700 CST			0	0	0	0	Funnel Cloud
Harrison County, 3NE Little Sioux	31	1230 CST			0	0	4	3	Tstm Winds (50+)
Monona County, 1 1/2S Danbury	31	1230 CST			0	0	4	2	Tstm Winds (50+)
Plymouth County, 1E LeMars	31	1330 CST			0	0	3	2	Tstm Winds (50+)
Sac County, 1N Schaller	31	1430 CST			0	0	3	2	Tstm Winds (50+)
Pottawattamie County, Council Bluffs	31	1535 CST			0	0	5	0	Lightning
Plymouth County, 12 S LeMars	31	1730 CST			0	0	3	2	Tstm Winds (50+)
									Thunderstorms developed over Western Iowa. One moved north and east of Little Sioux. Winds from it downed several large trees and blew a roof off a barn. Another damaged a farm house south of LeMars. A barn was destroyed at Danbury. Trees were downed at Schaller. Lightning set a large gasoline fuel storage tank on fire at a tank farm on the south side of Council Bluffs.
14 KANSAS									
KSZ001	1	0600 to 2100CST			0	0	2	0	High Winds
Far Northwest Kansas									Strong southerly winds of 40 to 60 mph blew across far western Kansas during the day. A strong storm system over the Rocky mountains was responsible for the high winds. Goodland measured a peak gust of 67 mph at 2015CST.
Hawkins Co McDonald	2	2000CST			0	0	4	0	Flash Flood
									Heavy rains of 4 to 6 inches fell in a localized area of far northwest Kansas during the early evening hours. At McDonald, 5.77 inches of rain was reported between 1700 and 2000CST. The heavy rain caused damage to a section of railroad tracks near McDonald when a small tributary of Beaver Creek flooded and washed out a portion of the tracks.
Hamilton Co Coolidge	2	1000CST	.1	20	0	0	3	0	Tornado (F0)
Greeley Co 2NW Horace	2	1100CST	3	50	0	0	3	0	Tornado (F1)
Scott Co 2S Scott City	2	1450CST	.1	20	0	0	0	0	Tornado (F0)
Edwards Co	2	1500CST			0	0	0	0	Funnel Clouds
Pawnee Co 1W Rozel	2	1605CST	5	70	0	0	4	0	Tornado (F2)
Rice Co 1.5SSW Lyons	2	1817CST	.3	25	0	0	0	0	Tornado (F0)
Sedgwick Co 3SW Goddard	2	1915CST			0	0	0	0	Funnel Clouds
Cheney	2	1920CST	6.5	30	0	0	4	0	Tornado (F1)
Wichita	2	1925CST			0	0	0	0	Funnel Cloud
Wichita	2	1940CST			0	0	0	0	Funnel Cloud

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

KANSAS

Cowley Co 10W Winfield	2	1950CST			0	0	0	0	Funnel Cloud
Sumner Co 10NW Wellington .5E Mulvane	2	1955CST			0	0	0	0	Funnel Cloud
	2	2000CST			0	0	0	0	Funnel Cloud
<p>A strong low pressure system over southwest Kansas spawned several small tornadoes and produced numerous funnel clouds across southwest and south-central portions of the state. A strong tornado touched down just west of Rozel and destroyed several farm buildings and heavily damaged farm equipment in the area. A small tornado also touched down at Cheney that damaged a mobile home and grain silo. A pickup camper was turned upside down and a barn was also unroofed. Total damage from this tornado was about \$23,000. Weak and narrow tornadoes damaged a few farm buildings northwest of Horace and in Coolidge.</p>									
KSZ001-002 Northwest Kansas	5	1800 to 2200CST			0	0	3	0	High Winds
<p>Strong southerly winds ahead of a low pressure system over Colorado were reported across far northwest Kansas. A peak gust of 84 mph was clocked at Page City at 2200CST while Goodland measured a gust of 64 mph at 2122CST.</p>									
Ellis Co Hays	6	1845CST			0	0	0	0	TSTM Wind (50)
<p>A thunderstorm produced strong winds to 58 mph in the Hays area during the early evening hours. No damage was reported from the strong winds.</p>									
Franklin Co Princeton	7	1145CST			0	0	0	0	Hail (1.0)
Johnson Co Shawnee	7	1230CST			0	0	0	0	Hail (.75)
Wyandotte Co	7	1236CST			0	0	0	0	Hail (1.0)
<p>Scattered severe thunderstorms developed across northeastern Kansas during the early afternoon and produced hail up to 1 inch in diameter. No damage resulted from the hail.</p>									
Dickinson Co 2.5NW Herington	8	0659CST			0	0	0	2	Hail (.75)
Pottawatomie Co Wamego	8	0735CST			0	0	2	0	Hail (1.0)
	8	0815CST			0	0	0	0	Hail (.75)
Jackson Co 10NW Holton	8	0828CST			0	0	0	0	Hail (.75)
Brown Co Hiawatha	8	0905CST			0	0	3	0	Hail (1.75)
Shawnee Co Auburn	8	0950CST			0	0	0	0	Hail (.75)
	8	1018CST			0	0	2	0	Hail (1.5)
	8	1103CST			0	0	2	0	Hail (1.75)
Doniphan Co 5E Denton	8	1000CST			0	0	3	0	TSTM Wind
	8	1010CST			0	0	1	0	Hail (1.0)
	8	1030CST			0	0	3	0	TSTM Wind
Osage Co Overbrook	8	1005CST			0	0	1	0	Hail (1.75)
Douglas Co 7W Lawrence	8	1026CST			0	0	2	0	Hail (2.5)
Leavenworth Co Jarbalo	8	1041CST			0	0	0	0	Hail (.75)
	8	1105CST			0	0	0	0	Hail (.75)
	8	1106CST			0	0	2	0	Hail (.75)
Johnson Co 30SW Olathe	8	1105CST			0	0	0	0	Hail (.75)
	8	1130CST			0	0	0	0	TSTM Wind (52)
	8	1131CST			0	0	0	0	Hail (.75)
	8	1154CST			0	0	0	0	Hail (.75)
Wyandotte Co	8	1113CST			0	0	0	0	Hail (.75)
Linn Co Mound City	8	1132CST			0	0	2	0	TSTM Wind (50)
Miami Co 3S Paola	8	1134CST			0	0	0	0	Hail (.75)

KANSAS

Crawford Co 1NE McCreary 6W Pittsburg Pittsburg	8	1210CST			0	0	0	0	Hail (1.0)
	8	1215CST			0	0	0	0	Hail (1.0)
	8	1225CST			0	0	2	0	Hail (1.0)
<p>A squall line formed ahead of a cold front across eastern Kansas with embedded severe thunderstorms. The severe thunderstorms produced hail up to baseball size west of Lawrence and damaging winds in several areas, but only minor property damage was reported with the storms.</p>									
Franklin Co 5N Ottawa	15	0720CST			0	0	0	0	Hail (.75)
<p>Early morning thunderstorms dropped three-quarter inch diameter hail north of Ottawa for a short time.</p>									
Sedgwick Co Wichita	15	1400CST			1	2	4	0	Lightning
<p>Lightning from thunderstorms in the Wichita area struck and killed a man as he was playing softball in an open field. Several other people were knocked to the ground by the lightning resulting in two minor injuries. None of the injured people required any hospitalization. Two homes in the Wichita area were also struck by lightning, resulting in \$40,000 damage from the associated fires. Lightning #240.</p>									
Scott Co 3SW Scott City 9W Scott City 8NW Scott City	17	1520CST			0	0	0	3	Hail (.75)
	17	1528CST			0	0	0	3	Hail (1.0)
	17	1658CST			0	0	0	3	Hail (1.0)
Gove Co 12SW Gove	17	1600CST			0	0	0	2	Hail (.75)
Logan Co 10SE Russell Springs	17	1715CST			0	0	0	3	Hail (.75)
Wichita Co 5E Leoti	17	2015CST			0	0	3	0	TSTM Wind (54)
<p>Thunderstorms developed across portions of southwest and northwest Kansas during the late afternoon and evening hours. A few thunderstorms became severe and produced hail and strong winds. Some minor crop damage occurred and the strong winds blew down several light poles near Leoti.</p>									
Harvey Co 3S Newton 1.5S Newton 2SW Hesston	21	1328CST			0	0	0	0	Funnel Clouds
	21	1335CST			0	0	0	0	Funnel Cloud
	21	1437CST			0	0	0	0	Funnel Cloud
<p>Strong thunderstorms across south-central Kansas produced several funnel clouds in the Newton and Hesston areas.</p>									
Ellis Co 4S Hunjor	23	1800CST			0	0	4	0	Lightning
<p>Lightning struck two oil tank batteries and set them on fire. The blaze caused \$39,000 in damage and a loss of 21,000 gallons of oil.</p>									
Scott Co 5E Scott City 5E Scott City 8S Scott City	27	1643CST			0	0	0	3	Hail (1.75)
	27	1720CST			0	0	0	3	Hail (1.75)
	27	1902CST			0	0	0	3	Hail (1.75)
Wichita Co 8E Leoti 14SE Leoti	27	1730CST	.1	20	0	0	0	0	Tornado (F0)
	27	1827CST			0	0	3	3	Hail (1.25)
Neade Co Fowler	27	1833CST			0	0	0	3	Hail (.75)
Finney Co 15NE Garden City	27	1930CST			0	1	2	0	TSTM Wind (52), Lightning
<p>Thunderstorms, a few severe, developed across portions of southwest Kansas during the late afternoon and evening hours. A weak, short-lived tornado was spotted east of Leoti with no damage being reported from the storm. Scott City measured 3 inches of rain in two hours time with many city streets being under one foot of water. Hail, up to golfball size, did some minor damage to crops in the area. To the east of Garden City, hail piled up in drifts one foot deep. A 87 year old man was struck by lightning 15 miles northeast of Garden City at</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

LOUISIANA

damaged or demolished by thunderstorms wind gusts at Creole, north of Folsom, and at Alton. Outbuildings, roofs, and sheds were damaged by straight-line wind gusts near Jennings and St. Francisville. Winds gusts of 88 mph (76 knots) were measured at the Jennings airport and a gust of 69 mph (60 knots) was recorded at Houma. Trees were uprooted or large branches ripped from trees by thunderstorm wind gusts at Loranger, Natalbany, Folsom, and eastern New Orleans. Several boats were overturned in the coastal waters of Terrebonne Parish and 10 to 15 boats were overturned by thunderstorm wind gusts over Lake Ponchartrain. An outbuilding was destroyed by thunderstorm wind gusts near Jean Lafitte. Flooding of streets and a few homes and businesses was reported in Lake Charles after 5 inches of rain fell in less than 2 hours time.

Tensas Parish, Newlight	22 0606CST				0	0	?	?	Hail (0.88)
Franklin Parish, Griffin	22 0620CST				0	0	?	?	Hail (1.00)
East Carroll Parish, Transylvania	22 0655CST				0	0	5	0	Lightning
Severe thunderstorms produced large hail over a small portion of northeast Louisiana. A large house near Transylvania was destroyed by fire started by a lightning strike.									
St. Tammany Parish, extreme southeast	24 1230CST-1250CST				0	0	7	?	Hail (3.00)
St. Helena Parish, 5 NE Greensburg Hillsdale	24 1432CST				0	0	?	?	Hail (1.00)
Jefferson Parish, Metairie	24 1620CST				0	0	4	?	TSTM Wind
St. Tammany Parish, Goodbee	24 1555CST				0	0	0	0	Funnel Cloud
Ramsey	24 1645CST				0	0	4	?	TSTM Wind
	24 1650CST				0	0	4	?	TSTM Wind

A severe thunderstorm developed over extreme southeast St. Tammany Parish producing the worst hail storm in recent memory over southeast Louisiana. Hail ranged in size from 3/4 to 3 inches in diameter. The hardest hit area was the east portion of Slidell where considerable damage to house roofs and automobiles was reported. Large hail fell for 5 to 10 minutes in many areas of Slidell. Damage to house roofs and automobiles was estimated at approximately \$5.5 million. Severe thunderstorms later moved from northwest to southeast across southeast Louisiana producing hail and strong wind gusts. Roofs, farm buildings, and trees were damaged by straight-line winds at Hillsdale, Ramsey, and Goodbee.

17 MAINE

Oxford Co. Newry	30 2130EST				0	1	0	0	Lightning
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Lightning struck a tree which was near where three campers had pitched their tents on Hedgehog Hill. One camper was seriously injured with a burn on one leg and respiratory problems, and had to be hospitalized.

18 MARYLAND and D.C.

MDZ007-008 North-Central MD	4th-8th				0	0	0	0	River Flooding
Rain fell for several days, resulting in rising waters throughout western Maryland. On the Potomac River, Point of Rocks reached 16.53 feet on the 8th (flood stage 16 feet). Other rivers rose to near or just below bankfull. Downed trees, mud and rock slides were reported in Allegany County.									
Washington Co, Hancock	16 1340EST				0	0	4	?	Hail (1.75)
Frederick Co	16 1500EST				0	0	?	?	Hail (0.75)
Montgomery Co	16 1616EST				0	0	?	?	Hail (1.75)
Montgomery Co	16 1645EST				0	0	?	?	Hail (0.75)
District of Columbia	16 1650EST				0	0	?	?	Hail (1.00)
Prince Georges Co	16 1730EST				0	0	?	?	Hail (1.00)
Prince Georges Co	16 1735EST				0	0	?	?	Hail (0.75)
Golfball size hail was reported in many areas. Numerous windows were broken in Burkittsville in Montgomery County. Damage was reported as widespread in Hancock.									

MARYLAND and D.C.

MDZ005-007 Central MD	16th-20th				0	0	0	0	River Flooding
Steady rainfall lasting 3 to 6 days resulted in numerous flooded basements, blocked roads, power outages and rising rivers. Rainfall totals exceeded 5 inches in some locations, with 2 to 3 inches reported in 6 to 12 hour time spans. Roads were reported blocked in Frederick, Carroll and Montgomery counties during the week of May 16-20. The Monocacy River crested at Frederick at 18.47 feet (flood stage 15 feet) on the 19th. The Potomac River flooded at Point of Rocks at 17.0 feet (flood stage 16 feet) on the 20th.									
Howard Co	23 1400EST				0	0	3	0	Thunderstorm Wind
Carroll Co	23 1400EST				0	0	3	0	Thunderstorm Wind
Montgomery Co	23 1600EST				0	0	?	?	Hail (1.75)
Montgomery Co	23 1705EST				0	0	?	?	Hail (1.75)
St. Marys Co, Tall Timbers	23 1900EST				0	0	?	?	Thunderstorm Wind (43kt)
Anne Arundel Co: Annapolis Pasadena	23 1900EST				0	0	4	0	Thunderstorm Wind (42kt)
					0	0	2	?	Hail (1.00)
Gusty winds snapped some power lines and some trees in Howard and Carroll counties; lightning also began 3 fires in that area. In Anne Arundel County, one inch hail fell in an isolated area in Pasadena, and some buildings were set afire by lightning.									

19 MASSACHUSETTS

Berkshire County Cheshire	22 1500EST-1700EST				0	0	6	0	Mudslides
A thunderstorm dumped heavy rainfall and the resulting runoff washed out several roads and a bridge, prompting local officials to declare a state of emergency. Mudslides buried one half to three quarters of a mile of Route 116. Much of the damage occurred in the eastern section of town. Damage estimates ran up to half a million dollars. The heavy rainfall also affected the adjacent towns of Adams, Savoy and Windsor with street flooding.									
Middlesex County Marlboro	22 Afternoon				0	0	4	0	Lightning
Lightning struck several homes, and one was struck two times with the resulting fire causing damage to the attic.									
Hampden County Springfield and Agawan	24 0300EST-0400EST				0	0	5	0	Lightning
Thunderstorms before dawn caused power outages which affected up to 7,000 customers. Several homes were struck by lightning.									
Essex County Swampscott, Marblehead, Ipswich, Lynn	24 0530EST-0630EST				0	0	5	0	TSTM winds
Thunderstorm winds gusting to around 50 MPH swept through the area during an early morning thunderstorm. Falling trees and tree limbs knocked down wires, resulting in power outages and scattered property damage.									
Norfolk County Quincy	24 0530EST-0630EST				0	0	4	0	Lightning
A bolt of lightning struck a school, damaging the roof and chimney and cancelling classes for the day. About 2,850 electric customers lost power in Quincy and vicinity.									
Hampden County Springfield	24 1100EST				0	0	0	0	Hail(0.75)
Dime size hail was reported.									
Worcester County Spencer	24 1145EST				0	0	0	0	Hail
Hail to 0.6 in. diameter was reported by a NWS employee.									
Worcester County Worcester city, Holden, Spencer	24 1200EST				0	0	5	0	Lightning, TSTM winds
Thunderstorm winds gusting up to 40 MPH and many lightning strikes knocked out power to up to 4,000 customers in Worcester city and Spencer. Heavy rain caused street flooding.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	
MASSACHUSETTS									
Middlesex County Southern portion	24	1230EST-1330EST			0	0	5	0	TSTM winds
		A heavy thunderstorm brought winds gusting to 40 to 50 MPH, knocking down trees, tree limbs and wires with resulting power losses affecting up to 12,000 customers. Among the communities hit the hardest were Framingham, Natick, Newton, Waltham, Lexington, Watertown, Malden and Medford. Up to 1 inch of rain in just 15 minutes in parts of the area resulted in considerable street flooding.							
Suffolk County Winthrop	24	1305EST			0	0	3	0	TSTM winds
		Thunderstorm winds estimated at 50-55 MPH were reported, and a few trees were knocked down.							
20 MICHIGAN									
Houghton Lake, Roscommon Co.	09	1359EST			0	0	0		Tstm Wind (52)
Troy, Oakland Co.	09	1402EST			0	0	0		Hail (0.75)
3 S Alpena, Alpena Co	09	1500EST			0	0	0		Tstm Wind
Long Rapids, Alpena Co.	09	1500EST			0	0	0		Tstm Wind
		2 barns were blown down and 5 calves killed. 2 persons thought they might have seen a funnel cloud, but there was no evidence of rotary motion.							
4 W Trout Creek, Ontonagon Co.	12	2000EST	.1	33	0	0	0		Tornado (FO)
		A funnel was seen to touch down briefly in a wooded area.							
Just N Benton Harbor, Berrien Co.	15	1425EST			0	0	0		Hail (1.50)
3 S St. Joseph, Berrien Co.	15	1513EST			0	0	0		Hail (1.00)
Tekonsha, Calhoun Co.	15	1515EST			0	0	0		Hail (1.50)
Montgomery, Hillsdale Co.	15	1535EST			0	0	0		Tstm Wind
Lenawee Co.	15	1620EST			0	0	0		Hail (0.75)
Milford, Oakland Co.	15	1626EST			0	0	0		Hail (0.75)
Berrien and Cass Counties	15	1645EST			0	3	3		Tstm Wind
		6 utility poles were snapped off in Buchanan. 4 cars in Niles and a truck in Berrien Springs were damaged by falling trees. Many fallen trees and limbs blocked roads and damaged 3 cars and a trailer in Cass County, 3 persons were injured when a tree fell on their car.							
Mt. Clemens, Macomb Co.	15	1705EST			0	0	0		Hail (0.75)
Garden City, Wayne Co.	15	1735EST			0	0	2		Hail (0.75)
Sanilac Co.	15	1748EST			0	0	4		Tstm Wind
		2 barns were blown down and a mobile home was unroofed.							
Ferndale, Oakland Co.	15	1755EST			0	0	0		Hail (0.75)
MICHIGAN									
Waldron, Hillsdale Co.	15	1804EST	.1	33	0	0	0		Tornado (FO)
		The funnel was seen to touch down by firefighters at Lickey and Territorial roads. It lifted immediately.							
Morenci, Lenawee Co.	15	1805EST			0	0	3		Tstm Wind
		A tree was blown down, damaging a car, and a barn was destroyed.							
NE of Waldron, near Hillsdale-Lenawee county line	15	1806EST	.1	33	0	0	0		Tornado (FO)
		A brief touchdown was observed.							
Deerfield, Lenawee Co.	15	1819EST	.1	33	0	1	3		Tornado (FO)
		A man was injured when a tree fell on his car. Several persons saw the funnel cloud.							
Selfridge ANG Base, Macomb Co.	15	1855EST			0	0	0		Tstm Wind (52)
Monroe Co.	15	1900EST			0	0	3		Tstm Wind
		2 cars were damaged by falling trees, and a barn was blown down in Monroe County.							
21 MINNESOTA									
Clay Co. 5 SW Ulen	07	1530CST	3	20	0	0	4	0	Tornado (F1)
		A tornado damaged three farm sites as it moved northeast. Several large trees were twisted and broken. Two pole barns, a granery and several sheds were destroyed and debris was scattered for a half mile. Most of the windows of a home were broken or blown out. Hail accompanied the tornado.							
Polk Co. Lengby	07	1550CST			0	0	0	0	Hail (1.75)
Crow Wing Co. 10 S Brainerd	07	1630CST			0	0	0	0	Hail (1.5)
		Golfball size hail fell at Lengby and half dollar size hail fell south of Brainerd.							
Red Lake Co. Red Lake Falls	07	1630CST			0	0	3	0	Thunderstorm Wind
Pennington Co. Thief River Falls	07	1640CST			0	0	4	0	Thunderstorm Wind
Clay Co. Barnesville	07	1645CST			0	0	3	0	Thunderstorm Wind
		Thunderstorm winds blew down trees and several sheds and tore off roofing in Red Lake Falls. Similar damage occurred in Barnesville along a southwest to northeast damage path. A roof was flipped over into a parking lot at a motel in Thief River Falls and a steel grain bin just southwest of Thief River Falls was picked up by the wind and smashed.							
Rice Co. Faribault	07	1705CST			0	0	4	0	Hail (1.75) Thunderstorm Wind (58)
		Hail as large as golfballs pounded holes in vinyl siding, dented cars and broke windshields. Some trees were stripped of leaves. Thunderstorm winds gusted to 67 miles per hour.							
Dakota Co. Lakeville	07	1730CST			0	0	0	0	Hail (1.75)
Ramsey Co. St. Paul	07	1735CST			0	0	0	0	Hail (1.75)
Shoreview	07	1735CST			0	0	0	0	Hail (1.0)
Shoreview, St. Paul	07	1750CST			0	0	0	0	Hail (2.5)
		Golfball size hail fell at Lakeville and in the Highland Park section of St. Paul. Tennisball size hail fell at Shoreview and the Midway section of St. Paul.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
MINNESOTA									
Goodhue Co. Zumbrota-Red Wing	07	1800CST			0	0	0	0	Thunderstorm Wind (52)
			Winds estimated at more than 60 miles per hour downed some large trees from southwest of Zumbrota to near Red Wing.						
Anoka Co. 10 NW Blaine	07	1830CST			0	0	0	0	Thunderstorm Wind
			Thunderstorm winds blew down trees in Oak Grove Township in north-central Anoka County.						
Clay Co. 1.5 SE Glyndon	12	1525CST			0	0	4	0	Thunderstorm Wind
Becker Co. Detroit Lakes	12	1540CST			0	0	4	0	Thunderstorm Wind (53)
			Thunderstorm winds knocked down a concrete block wall of a barn southeast of Glyndon. Trees were downed and an airplane was tossed upside down just west of Detroit Lakes at Long Lake. A gust of 61 miles per hour was reported in Detroit Lakes.						
Olmsted Co. Byron	12	1906CST			0	0	4	0	Thunderstorm Wind
			Winds tore the roof off a barn and overturned a parked camper northeast of Byron.						
Olmsted Co. Rochester	12	1912CST			0	0	0	0	Thunderstorm Wind
			Winds gusting to 68 miles per hour knocked down a few trees.						
Olmsted Co. 15N Rochester	19	0630CST			0	0	4	0	Lightning
			Lightning caused a fire that seriously damaged a rural Rochester home.						
Wilkin Co. Rothsay	26	2045CST			0	0	0	0	Hail (1.0)
Ottertail Co. 6S Perham	28	1820CST			0	0	0	0	Hail (0.75)
	28	1853CST			0	0	0	0	Hail (1.0)
Nobles Co. 3W Worthington	31	1400CST			0	0	0	0	Thunderstorm Wind (58)
			A radio station near Worthington reported a thunderstorm gust to 67 miles per hour.						
22 MISSISSIPPI									
Tishomingo County, 2S Tishomingo	08	1925CST			0	0	?	?	Hail (.75) Thunderstorm Winds
			Strong winds blew trees down on Mississippi Highway 25, just south of Tishomingo.						
Tunica County, 6SW Tunica and 11SW Tunica	08	2345CST			0	0	3	0	Thunderstorm Winds
			Strong winds blew a metal roof off a storage building at Austin or 6 miles southwest of Tunica. Eleven miles southwest of Tunica, several camper trailers were overturned.						
Tate County, Senatobia	09	0010CST			0	0	?	?	Hail (.75)
Marshall County, Waterford	09	0100CST			0	0	?	0	Thunderstorm Winds
			Trees were blown down on Mississippi Highway 7 near Waterford. A roof was also blown off a barn.						
Tippah County, 7N Ripley	09	0115CST			0	0	?	?	Hail (.75)
Chickasaw County, Okolona	09	1800CST			0	0	?	0	Thunderstorm Winds (65)
Washington County, 5NW Greenville	09	2340CST			0	0	?	0	Thunderstorm Winds (62)
Sunflower County, Sunflower	10	0035CST			0	0	?	?	Hail (.75)
Leflore County, 8N Greenwood	10	0055CST			0	0	?	?	Hail (1.75)
MISSISSIPPI									
Holmes County, Pickens	10	0135CST			0	0	?	?	Hail (.75)
Prentiss County, Booneville	10	0230CST			0	0	4	0	Lightning
			Lightning struck a church in Booneville and heavily damaged it. Lightning struck the steeple, melted it and caught the carpet on fire. The electrical wiring was also damaged.						
Leake County, Thomastown	10	0230CST			0	0	?	?	Hail (1.00)
Holmes County, 12SE Lexington	10	0320CST			0	0	?	?	Hail (1.25)
Wayne County, Strengthford	10	0730CST			0	0	5	0	Thunderstorm Winds
			Strong winds in Strengthford picked up a mobile home and moved it 3 feet. One shed, barn and chicken house was destroyed. Numerous trees were damaged.						
Marion County, Foxworth	10	1350CST			0	0	?	?	Hail (1.00)
Walsh County, 4S Tylertown	10	1430CST			0	0	?	?	Hail (1.00) Thunderstorm Winds
			Trees were blown down about 4 miles south of Tylertown by winds accompanied by nickel size hail.						
Pearl River County, Poplarville	10	1510CST			0	0	?	?	Hail (1.75) Funnel Cloud
Pearl River County, Poplarville	10	1512CST			0	0	4	0	Thunderstorm Winds
			Strong winds blew down a 50 ft. tower in Poplarville. The tower heavily damaged a business. Trees were also blown down in the area.						
Harrison County, Lizana	10	1605CST	1.5	50	0	0	4	0	Tornado (F1)
			A short-lived weak tornado touched down in Lizana. The tornado was traveling to the southeast and heavily damaged 2 mobile homes. A trail of tree damage marked the path.						
Harrison County, 2N Gulfport	10	1620CST			0	0	?	?	Hail (.75)
Harrison County, 2N Gulfport	10	1630CST			0	0	?	?	Hail (1.75)
Pearl River County, 4N Picayune	10	1700CST			0	0	?	?	Hail (.75)
Yazoo County, Eden	10	1705CST			0	0	?	?	Hail (.75)
Hancock County, Bay St. Louis	21	1130CST			0	0	?	0	Thunderstorm Winds (652)
			Trees and power lines were blown down.						
Harrison County, Biloxi	21	1230CST			0	0	?	0	Thunderstorm Winds (655)
			Trees and power lines were blown down.						
Yazoo County, Yazoo City	22	1335CST			0	0	?	?	Hail (.75) Thunderstorm Winds
			A few large trees were blown down in Yazoo City.						
Yazoo County, Eden	22	1350CST			0	0	?	?	Hail (1.00)
Holmes County, Thornton	22	1400CST			0	0	?	?	Hail (1.00)
Quitman County, Marks	22	1430CST			0	0	4	0	Thunderstorm Winds
			Strong winds blew down trees and powerlines. Several roofs, windows and outbuildings were also damaged.						
Leflore County; Greenwood, Sidon, Minter City and Morgan City	22	1435- 1445CST			0	0	?	?	Hail (1.00)
Marion County, 10W Sumrall	22	1440CST			0	0	?	?	Hail (1.75)
Lamar County, 5W Sumrall	22	1440CST			0	0	?	?	Hail (1.00)
			Nickel size hail shredded up cabbage plants and other garden vegetables.						
Holmes County, Lexington	22	1440CST			0	0	?	0	Thunderstorm Winds
			Trees and power lines were blown down near Lexington.						
Yalobusha County, Water Valley	22	1445CST			0	0	?	?	Hail (1.00)
Hinds County, Clinton	22	1457CST			0	0	?	0	Thunderstorm Winds (660)
			Numerous trees were blown down in Clinton.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	
MISSISSIPPI									
Jones County, 3SW Ellisville	22	1512CST			0	0	?	?	Hail (.75)
Holmes County, 4NW Pickens	22	1600CST			0	0	?	?	Hail (1.50)
Tippah County, Ripley	22	1600CST			0	0	?	?	Hail (.75)
Holmes County, 6SSE Lexington	22	1605CST			0	0	?	?	Hail (.75)
Holmes County, Lexington	22	1615CST			0	0	?	0	Thunderstorm Winds
									Numerous trees and power lines were blown down in Lexington.
Tippah County, Ripley	22	1619CST			0	0	6	?	Hail (2.50)
									Golf ball to tennis ball size hail pounded much of Ripley. Roofs and cars were heavily damaged with many windows broken. Total damage was estimated near 1 million dollars. Two dealerships alone suffered nearly 100,000 dollars of damage to cars.
Leake County, 14N Carthage	22	1645CST			0	0	?	?	Hail (1.75) Thunderstorm Winds
									Several trees were blown down 14 miles north of Carthage.
Attala County, 10S Kosciusko	22	1650CST			0	0	?	?	Hail (1.75)
Winston County, Louisville	22	1720CST			0	0	?	0	Thunderstorm Winds
									Numerous trees and power lines were blown down in Louisville.
Yalobusha County, Coffeeville	22	1730CST			0	0	?	?	Hail (.75) Thunderstorm Winds
									Several trees were blown down near Coffeeville.
Choctaw County, Ackerman	22	1730CST			0	0	?	?	Hail (1.75)
Oktober County, Sturgis	22	1740CST			0	0	?	?	Hail (1.75)
Neshoba County, 8N Philadelphia	22	1800CST			0	0	?	0	Thunderstorm Winds
									Several trees were blown down on Mississippi Highway 15, 8 miles north of Philadelphia.
Oktober County, Starkville	22	1800CST			0	0	4	0	Thunderstorm Winds
									Strong winds uprooted large trees across Starkville. Damage was estimated at 1000 dollars to traffic lights. One house under construction was damaged.
Oktober County, Starkville	22	1805CST	1.5	75	0	0	5	0	Tornado (F1)
									A tornado touched down initially near the western edge of the Mississippi State University campus and traveled northeast to the extreme north side of the campus before it dissipated. The tornado overturned 2 trucks and shattered the windows of 6 others. The football tower was totally destroyed. The tornado also damaged several other structures on the campus. The tornado track was littered with fallen trees.
Monroe County, Amory	22	1850CST			0	1	5	?	Hail (.75) Thunderstorm Winds
									In northern Amory, numerous trees and power lines were downed. One woman was injured when a tree fell on her house. The house was heavily damaged. Numerous signs were blown down across town.
Clay County, West Point	22	1900CST			0	0	?	?	Thunderstorm Winds
									Several trees and power lines were blown down. The heaviest damage was in the western portion of the city. Several outbuildings were also damaged.
Noxubee County, 5E Macon	22	1930CST			0	0	?	?	Hail (.75)
Lee County, Bissell	22	1947CST			0	0	?	?	Hail (.75)
Jasper County, Bay Springs	23	1053CST			0	0	?	?	Hail (.75)
Jones County, Laurel	24	1215CST			0	0	?	?	Hail (1.00)
Jones County, 8W Laurel	24	1242CST			0	0	?	?	Hail (1.00)
Jefferson Davis County, 4NW Bassfield	24	1220CST			0	0	?	0	Thunderstorm Winds
									Trees were blown down 4 miles northwest of Bassfield.
Pike County, 7SE McComb	24	1300CST			0	0	?	?	Hail (.75)
Covington County, Collins	24	1300CST			0	0	?	?	Hail (1.75)
MISSISSIPPI									
Covington County, Seminary	24	1305CST			0	0	?	?	Hail (1.00)
Walhall County, 7NW Tylertown	24	1310CST			0	0	?	0	Thunderstorm Winds
									Several trees were blown down on Mississippi Highway 583 northwest of Tylertown.
Hancock County, 6N Waveland	24	1315CST			0	0	?	?	Hail (1.75)
Jones County, 6SW Laurel	24	1320CST			0	0	?	?	Hail (.75)
Wayne County, Waynesboro	24	1325CST			0	0	?	?	Hail (.75)
Harrison County, Lyman	24	1330CST			0	0	?	0	Thunderstorm Winds
									Trees were blown down in Lyman.
George County, Tipton	24	1415CST			0	0	?	?	Hail (1.75) Thunderstorm Winds
									Two large trees were blown down in Tipton.
Marion County, Kokomo	24	1518CST			0	0	?	?	Hail (.75)
Walhall County, 2N Tylertown	24	1520CST			0	0	?	0	Thunderstorm Winds
									Trees were blown down across Mississippi Highway 27 just north of Tylertown.
Clarke County, 10S Quitman	24	1530CST			0	0	?	?	Hail (.75)
Pearl River, 6N Picayune	24	1640CST			0	0	?	?	Hail (1.00)
23 MISSOURI									
Clay County, 5E Riverside	7	1232CST			0	0	1	0	Hail (1.00)
Nodaway County, near Maryville	8	0850CST			0	0	0	0	Hail (0.75)
									Hail up to 3/4 inch in diameter fell just northwest of Maryville.
Holt County, Big Lake Park	8	0905CST			0	0	0	0	Hail (0.75)
Nodaway County: 7.5SW Maryville countywide	8	0906CST			0	0	1	0	Hail (1.50)
	8	0913CST			0	0	0	0	Hail (0.75)
Holt County	8	1015-1031CST			0	0	1	0	Hail (1.00)
									Hail up to 3/4 inch in diameter fell throughout the county. One inch diameter hail fell from Highland to Iowa Point.
Worth County	8	1035CST			0	0	4	0	TSTM Wind
									Thunderstorm winds left path of downed trees and several damaged outbuildings from the southwest corner of Worth through the northeast portion of the county. The storm also pushed over a barn and blew an unanchored trailer 50 feet. Numerous sheds and trees were damaged.
Buchanan County, St. Joseph	8	1035CST			0	0	3	0	TSTM Wind
									Winds of 70 to 80 mph were clocked on the equipment at the Radio Dispatch unit at the St. Joseph City Yard. Wind damage to a few outbuildings, shed roofs, and the roof of one business was reported.
Harrison County	8	1136CST			0	0	4	0	Hail (1.75) and TSTM Wind
									Hail up to 1 3/4 inch diameter fell between New Hampton and Bethany. The Wesley Chapel Church, just west of Washington Center, had windows blown out, shingles torn off and the chimney broken off. Several trees were damaged in the same area and in Bethany.
Platte County	8	1140CST			0	0	1	0	Hail (0.75)
									Three-quarter inch diameter hail stripped leaves and tore branches from trees on Highway 9, north of 72nd Street.
Jackson County	8	1142CST			0	0	0	0	Hail (0.75)
									Hail up to 3/4 inch in diameter fell along Interstate 435 near Independence.
Platte County	8	1143CST			0	0	0	0	Hail (0.75)
									Hail up to 3/4 inch in diameter fell at 56th Street and Interstate 29.
Clinton County, Trimble	8	1145CST			0	0	0	0	Hail (0.75)

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
MISSOURI											
Clay County	8	1200-1205CST			0	0	0	0			Hail (1.00).
											Hail up to 3/4 inch in diameter was reported by a park ranger at the Clay County Park at Smithville Lake. One-inch diameter hail fell at Kearney.
Linn County, 1N Brookfield	8	1225CST			0	0	0	0			Hail (0.75)
Mercer County, 1N Princeton	8	1230CST			0	0	0	0			Hail (0.75) Three-quarter inch diameter hail was reported one mile north of Princeton. Smaller hail fell within the city limits of Princeton.
Newton County, 1N Neosho	8	1320CST			0	0	4	0			TSTM Wind Some roofs were damaged.
Adair County, Nine	8	1320CST			0	0	1	0			Hail (1.75) The hail covered the ground.
Sullivan County	8	1322CST			0	0	0	0			Hail (0.75) Hail up to 3/4 inch in diameter fell west of Milan and at Green City.
Putnam County, near Unionville	8	1330CST			0	0	0	0			Hail (1.00)
Moniteau County, California	8	1340CST			0	0	0	0			Hail (1.00)
Morgan County, Stover	8	1353CST			0	0	0	0			Hail (1.00) Hail up to one inch in diameter fell just south of Stover.
Moniteau County, 5N California	8	1400CST			0	0	1	0			Hail (1.75)
Greene County, Republic	8	1405CST			0	0	0	0			TSTM Wind (52)
Audrain County, Benton City	8	1405CST			0	0	0	0			Hail (0.75)
Morgan County, Stover	8	1406CST			0	0	3	0			TSTM Wind A roof was torn off of a building and trees were damaged.
Moniteau County	8	1410CST			0	0	2	0			TSTM Wind Large tree limbs were downed near Clarksburg, just north of California.
Boone County	8	1415-1430CST			0	0	1	0			Hail (1.00) Hail of 1/2 to one inch in diameter fell across the southern portion of the county and in Columbia.
Greene County, Springfield	8	1415CST			0	0	5	0			TSTM Wind (52) Large trees were blown down on west Chestnut in western Springfield. Gusts up to 60 mph were reported by KSPR-TV. Three cars were demolished.
Callaway County, Jefferson City	8	1435CST			0	0	1	0			TSTM Wind (65) Wind gusts up to 75 mph occurred at the Jefferson City Airport. The control tower was abandoned.
Boone County	8	1438CST			0	0	0	0			TSTM Wind (50) Wind gusts up to 50 knots occurred at the Columbia Regional Airport.
Callaway County, Holts Summit	8	1440CST			0	0	5	0			TSTM Wind (66) Wind gusts of up to 76 mph downed trees and signs. A barn was also destroyed and cars were damaged.
Audrain County, 5S Mexico	8	1442CST			0	0	0	0			Hail (0.75)
Pike County, Bowling Green	8	1450CST			0	0	4	0			TSTM Wind Several trees were uprooted, and there was scattered tree damage and power outages.
LaCade County, Lebanon	8	1450CST			0	0	0	0			TSTM Wind (49) A wind gust of 57 mph was observed.
Cole County, Russelville	8	1450CST			0	0	4	0			TSTM Wind Thunderstorm winds downed trees.
Cole County, Jefferson City	8	1450CST			0	0	5	0			TSTM Wind Trees and power lines were downed and cars were damaged.
Audrain County, Benton	8	1458CST			0	0	0	0			Hail (0.75)
Miller County, Eldon	8	1500CST			0	0	4	0			Hail (0.75) and TSTM Wind (61) Winds of up to 70 mph were accompanied by 3/4 inch diameter hail. Trees were downed between Eldon and Bagnell Dam, and wind damage was also reported around Bagnell Dam.
Marion County, near Palmyra	8	1504CST			0	0	0	0			Hail (0.75)
Pulaski County, Fort Leonard Wood	8	1520CST			0	0	0	0			Hail (1.00)
Maries County, Vichy	8	1526CST			0	0	0	0			TSTM Wind (55) Winds of up to 55 knots occurred at Vichy Airport.
Benton County, 4W Warsaw	8	1540CST			0	0	2	0			Hail (1.75) Strong winds accompanied the hail.
Gasconde County, Hermann	8	1542CST			0	0	0	0			TSTM Wind (52) Winds reached 60 mph.
MISSOURI											
Montgomery County, Jonesburg	8	1543CST			0	0	0	0			Hail (1.75)
Lincoln County, Elsberry	8	1554CST			0	0	5	0			TSTM Wind A severe thunderstorm moved through the northeast part of the county, in and around Elsberry. The storm damaged 7 homes and a number of sheds and farm buildings. Also damaged were a number of trees, and a mobile home and car were destroyed. The storm crossed the Mississippi River and continued to produce damage in Illinois (See Illinois report). Some observers considered this storm to be a tornado.
Crawford County, 2S Sullivan	8	1615CST			0	0	3	0			TSTM Wind and Hail (0.75) Trees were downed by the wind.
Franklin County, Sullivan	8	1615CST			0	0	0	0			TSTM Wind (52) Hail up to 1/2 inch in diameter accompanied the up to 60 mph winds
Franklin County, near Meramac State Park	8	1615CST			0	0	0	0			TSTM Wind Some trees were damaged.
St. Louis County, Chesterfield	8	1635CST			0	0	1	0			Hail (1.75)
Washington County	8	1645CST			0	0	4	0			TSTM Wind and Hail (1.75) Hail up to 1 3/4 inch diameter fell and strong winds blew trees down across County Highway A.
Jefferson County, Arnold	8	1700CST			0	0	0	0			TSTM Wind (52) Winds reached 60 mph.
City of St. Louis	8	1715CST			0	0	4	0			TSTM Wind Trees were downed in Forest Park and the surrounding area.
St. Francois County, Bonne Terre	8	1715CST			0	0	3	0			Hail (2.75) Hail of from one to 2 3/4 inch diameter fell in and around Bonne Terre.
St. Genevieve County, Bloomsdale	8	1740CST			0	0	2	0			Hail (1.75)
24 MONTANA											
Valley County, Glasgow	06	1645MST			0	0	0	0			TSTM Wind (55)
Carbon, Yellowstone, and Big Horn Counties including Red Lodge	06-07	1700MST-0700MST			0	0	4	0			Flooding Four to six inches of rain overnight caused widespread basement and road flooding along Pryor Creek and Rock Creek.
MTZ007 Cooke City and Bridger areas	07-08	Evening-Late Night			0	0	4	0			Heavy Snow Up to 3 feet of snow fell in the mountains of south-central Montana.
MTZ007 Billings and Bridger areas	07	Morning			0	0	0	0			High Winds (652)
Gallatin County, Belgrade	13	1430MST			0	0	0	0			TSTM Winds (655)
Park County	13	1500MST			0	0	4	0			TSTM Wind (70)
Yellowstone County, Billings	13	1730MST			0	0	0	0			TSTM Wind (652)
Cascade County, Great Falls	16	1606MST			0	0	0	0			TSTM Wind (652)
Cascade County, Great Falls	24	1400MST			0	0	0	0			Hail (0.75)
MTZ004	30	Afternoon			0	0	4	0			Heavy Snow Eight inches of snow fell on McDonald Pass west of Helena. Two to four inches fell in the mountains and passes of southwest Montana.
Valley County, 9W Glasgow	30	1705MST			0	0	5	0			TSTM Wind (660) Forty power poles were blown down.

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					KILLED	INJURED	PROPERTY	CROPS		
25 NEBRASKA										
Holt Co. O'Neill	01	1645CST			0	0	4	0		Damaging Wind
										Strong wind gusts tore half of the roof off a school building. Other small sheds were damaged in the area.
NE2012 Southwest Nebraska	01	1700CST-2200CST			0	0	4	0		High Wind
										Strong wind gusts tore the roof off a mobile home and a canopy off another mobile home in Ogallala. The gusts also caused clouds of blowing dust. A peak gust of 55 m.p.h. was recorded at Kingsley Dam.
Cheyenne Co. Sidney	01	1830CST			0	0	4	0		Thunderstorm Wind
										Wind gusts lifted a portion of the roof off the newspaper building.
Cheyenne Co. Sidney	01	1830CST			0	0	3	0		Lightning
										Fire started by a lightning strike damaged a home.
NE2001 Panhandle	06	1515CST-1645CST			0	0	3	2		High Wind (60)
										Strong northwest winds gusted as high as 69 m.p.h. at Chadron at 1633CST and 63 m.p.h. at Alliance at 1533CST.
Lincoln Co. SW Hershey	06	1934CST			0	0	0	0		Funnel Cloud
Brown Co. Ainsworth	06	2100CST			0	0	2	0		Thunderstorm Wind
										Wind gusts damaged a shed and fence.
NE2001-005 Panhandle	07	1100CST-1700CST			0	0	5	2		High Wind (62)
										Strong northwest winds gusted to as high as 71 m.p.h. at Alliance at 1129CST and 63 m.p.h. at Scottsbluff at 1516CST. Other wind gusts at or above 57 m.p.h. occurred. A store front was damaged at Alliance. Shingles were blown off on roofs, signs damaged, tree limbs broken and power lines and poles downed.
Saunders Co. Wahoo	07	1755CST			0	0	3	1		Hail (0.75)
Dodge Co. Fremont	07	1825CST			0	0	5	3		Hail (1.75) Thunderstorm Wind
										Thunderstorm winds blew down trees, damaging power lines. Hail caused property and garden damage.
Washington Co. Arlington	07	1830CST			0	0	3	1		Thunderstorm Wind
										Thunderstorm gusts uprooted trees.
Burt Co. SW Oakland	07	1845CST			0	0	4	2		Hail (1.00) Thunderstorm Wind
										Hail covered ground and damaged vehicles. Winds broke tree limbs.
Washington Co. Blair	07	1845CST			0	0	2	1		Hail (0.75)
Lancaster Co. Lincoln	07	2035CST			0	0	2	1		Hail (1.00)
Colfax Co. IN Richland	07	2115CST			0	0	2	2		Hail (0.88)
Platte Co. 4NE Columbus	07	2115CST			0	0	3	2		Hail (1.00)
Saunders Co., Sarpy Co. and Douglas Co.; SW Ashland to 6SE Elkhorn	07	2125CST	16.2	75	2	1	6	3		Tornado (F2)
										A tornado touched down 5 miles northwest of Ashland and moved northeast, lifting for brief intervals. Two farmsteads were damaged in Saunders County and boats damaged in the Thomas Lakes area. It entered Sarpy County 4 miles west-southwest of Gretna and crossed the northwest part of the county, damaging buildings on four farmsteads including the destruction of a mobile home. Two occupants were killed and one injured in the mobile home, located 1 3/4 miles northwest of Gretna, at approximately 2140CST. Livestock were also killed and vehicles damaged. The tornado entered Douglas County about 6 miles south-southeast of Elkhorn and lifted 6 1/2 miles southeast of Elkhorn. Trees, power poles and lines were damaged. F29M, F02M
Saunders Co. Memphis	07	2130CST			0	0	4	2		Hail (1.00)
										Hail damaged vehicles.
NEBRASKA										
Douglas Co: Elkhorn	07	2138CST			0	0	4	2		Hail (1.75)
14W Omaha	07	2140CST			0	0	3	1		Hail (0.75)
17SW Omaha	07	2147CST			0	2	5	1		Thunderstorm Wind
1 1/2 SW Omaha	07	2148CST			0	0	4	1		Thunderstorm Wind
8NW Omaha	07	2158CST			0	0	5	3		Hail (2.25)
8NW Omaha	07	2200CST			0	0	5	3		Hail (3.00)
3NW Omaha	07	2200CST			0	0	4	1		Thunderstorm Wind
										A severe thunderstorm moved northeast through Douglas County and Omaha. Hail 3/4 to 3 inches in diameter dented vehicles and aircraft, broke windows and damaged roofs and gardens. Two and a quarter to 3 inch hail fell at the Omaha weather station and nearby North Omaha airport 8 miles northwest of the Omaha airport, damaging aircraft. Near 150th and F Street or 17 miles southwest of the airport, thunderstorm winds blew over a mobile home, injuring two occupants, and pushed four other mobile homes off their foundation. Roof damage occurred to a home 1 1/2 miles southwest of the airport. Tree limbs were broken in Omaha 3 miles northwest of the airport.
Butler Co. 3SSW Bellwood	07	2204CST			0	0	2	1		Hail (0.75)
NE2005 Panhandle Nebraska	08	1130CST-1330CST			0	0	2	2		High Wind (51)
										Strong northwest winds gusted in the panhandle. A peak gust to 59 m.p.h. at Scottsbluff was recorded at 1151CST. Minor property damage was reported.
Banner Co. 2SW Harrisburg	17	1225CST	0.1	30	0	0	1	1		Tornado (F1)
										A tornado touched down briefly in rangeland 2 miles southwest of Harrisburg with no significant damage.
Custer Co. Oconto	17	1929CST			0	0	3	2		Hail (1.75)
Franklin Co. 1SW Macon	17	2115CST			0	0	4	0		Thunderstorm Wind
										Winds destroyed a barn and uprooted trees.
Scottsbluff Co. Mitchell	18	0310CST			0	0	4	0		Lightning
										Lightning started a fire which destroyed a storage shed.
Butler Co. 6NW Rising City	18	0745CST			0	0	5	1		Lightning
										Fire started by lightning destroyed a barn and contents.
Thomas Co. SW Theford	18	1800CST			0	0	3	1		Lightning
										A nearby lightning strike killed nine head of cattle.
Lincoln Co. 10SW Hershey	18	1837CST	0.1	25	0	0	1	1		Tornado (F0)
										Tornado touched down 10 miles southwest of Hershey briefly in open country.
Dawson Co. Sumner	18	1900CST			0	0	4	1		Thunderstorm Wind
										Winds demolished a farm equipment shed, took the roof off another shed and blew over a hog shed.
Douglas Co. Omaha	19	1707CST			0	0	5	1		Thunderstorm Wind (63)
										Wind gusts to 73 m.p.h. flipped a light plane over at Omaha Eppley airport. Trees and power lines were blown down with some trees falling on homes and vehicles. Wind damage to the facing of a downtown building was also reported.
Cass Co. Murray	19	1710CST			0	0	3	1		Thunderstorm Wind (59)
										Wind gusts to around 68 m.p.h. were reported by the sheriff.
Burt Co. 4SE Lyons	19	1745CST			0	0	4	1		Thunderstorm Wind (52)
										Wind gusts to 60 m.p.h. damaged trees and outbuildings and downed power lines.
Madison Co. Norfolk	20	1235CST			0	0	4	2		Hail (1.50)
Cuming Co. SSE Wisner	20	1245CST			0	0	3	1		Thunderstorm Wind
										Gusts ripped portions of a number of shelter roofs off of a feed lot.
Sarpy Co. Offutt AFB	20	1343CST			0	0	3	1		Hail (1.00)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

NEBRASKA

Cedar Co: Hartington	20	1430CST			0	0	5	3	Hail (0.88)	
6NE Hartington	20	1435CST			0	0	4	0	Thunderstorm Wind	
5NW Hartington	20	1500CST			0	0	4	3	Hail (1.75)	
Hail damaged building roofs and some home siding. Leaves were stripped from trees and emerging crops damaged. A barn was lifted off its foundation and had its roof damaged by strong winds.										
Cuming Co. 5SW West Point	20	1520CST	0.5	20	0	0	0	5	1	Tornado (F1)
A small tornado touched down on a farm 5 miles southwest of West Point and moved northeast a half mile, damaging two barns, fence and trees.										
Lancaster Co. Lincoln	20	1650CST			0	0	4	0	Lightning	
Fire started by lightning damaged a home.										
Sarpy Co: Offutt AFB	20	1718CST			0	0	3	1	Thunderstorm Wind (61)	
Offutt AFB	20	1720CST			0	0	3	1	Hail (1.00)	
Papillion	20	1720CST			0	0	3	1	Hail (1.00)	
Wind gusted to 70 m.p.h. at Offutt AFB. One-inch hail was also reported in the county with the thunderstorm.										
Sarpy Co. Papillion	20	1745CST			0	0	3	1	Thunderstorm Wind (52)	
Wind gusts to 60 m.p.h. broke tree limbs.										
Douglas Co. 6NW Omaha Omaha	20	1800CST			0	0	5	2	Thunderstorm Wind	
Strong wind gusts damaged a barn, blew shingles off a house and broke tree limbs 6 miles northwest of the Omaha Airport. Other trees were blown down in Omaha, with some falling on power lines and homes.										
Douglas Co. Omaha	21	1230CST			0	0	4	0	Lightning	
Fire from lightning strike damaged a gasoline station.										
Cherry Co. 7E Valentine	25	2300CST			0	2	5	2	Flash Flood	
Ponding water from earlier rains broke from its natural enclosure, causing flooding and damage to railroad tracks. The damaged track resulted in the derailment of a train, injuring two train personnel.										
Sarpy Co. Papillion	28	1630CST			0	0	2	1	Thunderstorm Wind	
Wind gusts blew down trees in the north side.										
Douglas Co. 6NW Omaha	28	1650CST			0	0	3	1	Thunderstorm Wind	
Wind gusts downed a number of trees and broke limbs in the Hummel and Dodge Park area of Omaha. Fallen tree limbs also took down an estimated 40 power lines in town.										
Cedar Co. 3N Laurel	28	1800CST			0	0	4	2	Thunderstorm Wind	
Winds destroyed a barn and outbuildings. A wind mill was blown over and irrigation lines damaged on an adjacent farm.										
Howard Co. 4NW St. Libory	29	1735CST	0.5	40	0	0	2	0	Tornado (F1)	
A tornado moving north touched down 4 1/2 miles northwest of St. Libory, uprooting a tree and damaging fences.										
Howard Co. St. Paul	29	1750CST			0	0	4	1	Thunderstorm Wind	
Winds downed trees and a few power lines. A vehicle was heavily damaged by a fallen tree. Farm outbuildings were damaged just north of town.										
Cheyenne Co. Sidney	30	1650CST			0	0	3	1	Thunderstorm Wind (51)	
Wind gusted to 59 m.p.h., causing minor damage.										
Box Butte Co. 19N Alliance	30	2045CST	0.2	30	0	0	4	1	Tornado (F1)	
A tornado touched down briefly 19 miles north of Alliance and moved north, damaging farm outbuildings, equipment, trees and fence.										
Perkins Co. 12SE Madrid	30	2300CST	0.2	40	0	0	4	1	Tornado (F1)	
A tornado touched down 12 miles southeast of Madrid, destroying a garage and uprooting trees.										
Hitchcock Co. 7NW Stratton	30	2330CST			0	0	4	1	Thunderstorm Wind	
Winds damaged outbuildings and downed trees and power lines on two farms.										

NEBRASKA

Dodge Co. Fremont	31	1120CST			0	0	5	1	Thunderstorm Wind
Winds blew the roof off a building on the far north side of town. Debris fell on nearby vehicles.									
Sarpy Co. 4W Bellevue	31	1815CST			0	0	4	0	Lightning
Fire started by lightning destroyed a barn. A number of livestock inside were killed.									

26 NEVADA

Lander County	01	0805PST			0	0	0	0	Funnel Clouds
A storm spotter spotted two funnel clouds four miles east and one mile north of Battle Mountain, Nevada. One of them may have touched the ground.									
NV2007 Extreme Southern Nevada	05	1600PST 1730PST			0	0	0	0	High Winds
NV2005 East-Central Nevada	05- 06	2300PST 1100PST			0	0	0	0	Heavy Snow
NV2002 Northeast Nevada	06	0400PST 1300PST			0	0	0	0	Heavy Snow
An upper level low pressure system tracked across Southern Nevada, turned north-northeast and passed over the Ely, Nevada area, then moved into Northwest Utah. High winds were observed in Extreme Southern Nevada in the early evening hours of the 5th as the low approached the area. Winds gusted to 60 MPH in the Henderson, Nevada area. Heavy snow fell in the western parts of East-Central and Northeast Nevada as the low moved through the area. Valley locations received amounts ranging from a mere two inches to more than a foot of snow. Jackpot, Nevada, on the Idaho border, measured 14 inches. In mountain passes nine to 15 inches of new snowfall was common. U. S. Highway 50 between Austin, Nevada and Bob Scott Summit was closed for several hours due to heavy snow. Mountain passes in White Pine and Elko Counties remained open but travel was still hazardous all day due to icy roads and gusty winds.									
Elko County	12	1744PST			0	0	2	0	TSTM Wind (58)
Outflow winds from a thunderstorm just south of Wildhorse Reservoir caused minor roof damage to buildings at the Wildhorse Reservoir State Park. There was a thunderstorm in progress at the State Park at the time of the strong winds. Approximately ten minutes of heavy rain occurred after the strong winds subsided.									
NV2003-004 Extreme Western and West-Central Nevada	28	1430PST 1600PST			0	0	0	0	High Winds
NV2007 Extreme Southern Nevada	28- 29	1930PST 1000PST			0	0	0	0	High Winds
NV2005 East-Central Nevada	29	0200PST 0900PST			0	0	0	0	Heavy Snow
A strong Pacific cold front moved into Western Nevada the evening of the 28th and passed through the state the following morning. High winds developed ahead of the front as it approached the state. Sustained winds to 50 MPH with gusts to 65 MPH were observed in Yerington, Nevada. Winds gusted to 60 MPH in the Carson City area and the Carson Valley. Earlier on the 28th strong winds produced six foot waves on the east shore of Lake Tahoe. High winds continued ahead of the front as it moved into Southern Nevada. Winds gusted to 67 MPH in Mercury, Nevada in the early morning hours of the 29th. There were no reports of wind damage.									
Heavy snow developed behind the front after it passed through the mountains of East-Central Nevada. Eight to ten inches of snow fell on Austin, Nevada and a foot of new snow fell on U. S. Highway 50 at both Austin and Bob Scott Summits.									
NV2002 Northeast Nevada	30	0400PST 0900PST			0	0	0	0	Heavy Snow
An upper-level low pressure system moving through Southern Nevada produced heavy snow around the mountainous terrain of Northeast Nevada. Ten to fourteen inches of snow fell in valley areas near the Ruby Mountains. More than six inches fell on Owyhee, Nevada and Nidas, Nevada and 16 inches was measured at Jarbidge.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS			
27 NEW HAMPSHIRE										29 NEW MEXICO											
Grafton, Sullivan and Cheshire Counties	13	1700 to 1800EST			0	0	4	0	High Wind	Statewide	01	Afternoon			0	0	?	?	High Wind		
									A strong cold front moving through the area created winds that took down trees and branches causing several power outages. Hardest hit communities were Hanover, Claremont, Newport and Dublin.										A vigorous spring storm produced high winds which damaged trees, power lines, etc., around the state. The highest winds were 86 mph at Ruidoso, 69 mph at Raton, and 60 mph at Albuquerque.		
Rockingham Co. Derry	24	1215EST			0	0	5	0	TSTM Wind Hail (1.75)	Upper Rio Grande Valley	03	Morning			0	0	0	6	Freeze		
									A severe thunderstorm produced strong winds that took down trees, branches and signs. The main power line into Derry was broken and 3000 customers were without power for four hours. There were numerous reports of damage to cars and other property from wind and hail to golfball size.										Freezing overnight temperatures damaged apples and apricots. Damage was estimated at between one million and 1.5 million dollars.		
Rockingham Co. Portsmouth	24	1400EST			0	0	4	0	Flooding	Chaves County	05	1450 MST			0	0	?	?	Hail (0.75)		
									A thunderstorm brought about two inches of rain in less than an hour, causing streets and cellars to flood. Several streets were closed.										An FAA employee reported the hail 5 miles north-northwest of the Roswell Airport.		
Hillsborough Co. Bedford	29	2000EST			0	0	5	0	Lightning	Chaves County: Roswell FSS	05	1506 MST			0	0	?	?	Hail (1.50)		
									A 110-year-old, hand-pegged, post-and-beam barn burned to the ground after being struck by lightning. A 3000 volume collection of books were also consumed in the flames.	Roswell FSS	05	1559 MST			0	0	?	?	Hail (1.00)		
Hillsborough and Rockingham Counties Manchester and Derry	30	2000 to 2200EST			0	0	5	0	Flooding	Roswell FD	05	1600 MST			0	0	?	?	Hail (1.75)		
									Heavy rains from thunderstorms caused flooding of streets and washed out sections of some roadways.										Hail occurred twice at the Roswell Flight Service Station, and was also reported by the Roswell Fire Department southwest of Roswell.		
28 NEW JERSEY, Northern																					
Essex Co.	23	1535EST			0	0	0	0	Thunderstorm Wind (GSO)	Chaves County	19	1020 MST			0	0	0	0	Funnel Cloud		
									A small area of thunderstorms moved across Essex County. Small pea size hail was observed and as the thunderstorm moved across Newark International Airport the wind gusted to 50 knots (58 mph).										State Police officers reported a funnel cloud 15 to 20 miles west of Roswell.		
Union Co.	23	1537EST	?	?	0	0	0	0	Tornado (FO)	Eddy County, 15W Lakewood	19	1030 MST			0	0	0	0	Funnel Cloud		
									The same thunderstorm complex that moved across Newark Airport produced a very brief tornado near Linden, New Jersey. The tornado caused no observed damage and probably was on the ground for only a few seconds.										A funnel cloud was spotted 15 miles west of Lakewood by a contract observer.		
28 NEW JERSEY, Southern																					
Burlington County: Delran	22	1530EST			0	0	?	0	TSTM Wind (52)	Eddy County: Artesia	19	1300 MST			0	0	?	?	Hail (1.00)		
Medford	22	1556EST			0	0	0	?	Hail (1.00)	3S Artesia	19	1300 MST			0	0	0	0	Funnel Cloud		
Red Lion	22	1630EST			0	0	?	?	Hail (1.00), TSTM Wind										Artesia Fire and Police Departments reported hail and a contract observer spotted a funnel cloud.		
									Thunderstorms dropped one-inch diameter hail at Medford and hail the size of a quarter at Red Lion. Thunderstorm wind gusts brought down limbs at Red Lion and were estimated at 60 mph at Delran.	Lea County	20	1345 MST			0	0	0	0	0	0	Funnel Cloud
Ocean County, 55W Tuckerton	22	1720EST			0	0	?	0	TSTM Wind										A funnel cloud was reported by radio station KUUX in Hobbs.		
									Thunderstorm winds brought down limbs at Mystic Islands, located to the southwest of Tuckerton.	Lea County, Hobbs	20	1349 MST	?	30	0	1	5	?	?	Tornado (FO)	
Atlantic County, Pomona	22	1730EST			0	0	0	?	Hail (1.00)										A tornado touched down in Hobbs and uprooted trees, downed telephone poles, and damaged a metal building. One woman was injured when her truck was overturned by the twister.		
									Thunderstorms dropped nickel and quarter size hail.	Lea County, E of Lovington	20	1406 MST	?	?	0	0	?	?	?	Tornado (FO)	
Burlington County, Willingboro	23	2130EST			0	0	3	?	TSTM Wind										A tornado was spotted by the Lovington Fire Department Chief, east of Lovington.		
									Thunderstorm winds brought down trees and power lines.	Quay County, San Jon	25	unknown			0	0	?	0	0	Lightning	
										Lightning ignited a fire which burned a house down in San Jon.											
										Dona Ana County, near Rincon											
										25 1345 MST 1 0 0 0 Lightning											
										Lightning struck and killed a Mexican national as he was working in a chili field near Rincon. (M430)											
										Lea County											
										25 est. 1545MST 0 0 ? ? Hail (1.75)											
										Hail of up to golfball size fell in an area 10 to 15 miles west of Tatum.											
										Chaves County, 10NNE Roswell											
										25 1940 MST 0 0 0 0 Funnel Cloud											
										State Police officers spotted the funnel cloud.											
										Eddy County:											
										28 1808 MST 0 0 0 0 Funnel Cloud											
										28 1819 MST 0 0 0 0 Hail (0.75)											
										28 1837 MST 0 0 0 0 Hail (0.75)											
										28 1845 MST 0 0 0 0 Funnel Cloud											
										28 1900 MST 0 0 ? ? Hail (1.25)											
										A funnel cloud 8 miles north of Carlsbad was spotted by FAA personnel, and three-quarter inch diameter hail was reported twice by an observer at the Carlsbad Flight Service Station.											
										Lea County: S of Hobbs											
										30 1715 MST 0 0 ? ? Hail (1.75)											
										30 1720 MST 0 0 3 ? Hail (2.50)											
										The Sheriff reported one and three-quarter inch diameter hail south of Hobbs and radio station KUUX reported tennis ball size hail in Hobbs. Car and store windows were damaged in Hobbs.											

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

NEW MEXICO

Roosevelt County, Elida 30 1740 MST 0 0 ? ? Hail (1.75)
 A spotter reported one and three-quarter inch diameter hail at Elida, 25 miles southwest of Portales.

Curry County:
 Clovis 30 1844 MST 0 0 ? ? Hail (1.75)
 Clovis 30 1900 MST 0 0 0 0 Funnel Cloud
 Clovis 30 1900 MST ? ? 0 0 0 0 Tornado (FO)

In Clovis, hail was reported by the Emergency Operations Center and a funnel cloud was reported by state police. A spotter reported a tornado 5 miles south of Cannon Air Force Base, also in Clovis.

Roosevelt County:
 Elida 30 1920 MST 0 0 ? ? Hail (1.00)
 24SW Portales 30 2114 MST ? ? 0 0 ? ? Tornado (FO)
 Hail in Elida was reported by a spotter.

Curry and Roosevelt Counties 30- 2115 MST 1 ? ? 6 Flash Flood 31
 Two to five inches of rain fell within a couple of hours in the Clovis-Portales area. Highway 70 between Portales and Roswell was closed, as was Highway 209 north of Clovis. Other highways were also closed, as were several intersections in the Clovis area. One death occurred within the Clovis city limits when four males in an automobile were swept down a street and into a ditch. They were swept into the current as they exited the car. One drowned while the others were rescued. The death occurred at 0140 MST on the 31st. Crop and livestock damage due to the flooding was estimated at two million dollars.
 (M33V)

30 NEW YORK, Coastal

Kings Co. 23 1610EST 0 0 ? 0 Thunderstorm Wind
 Severe thunderstorms moved across Kings County (Brooklyn) uprooting several trees and downing power lines along Flatbush, Bedford and Ocean Avenues.

30 NEW YORK, Central

NYZ-008 13 0930EST 0 0 4 ? High Wind (non-convective)
 A frontal passage with high winds knocked out power lines and downed trees.

Oneida County 13 1300EST 1 2 5 4 High Wind (non-convective)
 A cold front passed through Oneida County between 2:00 PM and 2:30 PM. The towns of Floyd, Taberg, Lee Center, Florence, Verona, North Bay, McConnellsville, Rome and Utica, were hardest hit. One (1) male was killed in an auto accident. The crash was a result of trying to avoid a falling tree.
 M-33-V (Town of Deerfield)

Clinton County, Plattsburgh 13 1430EST 0 0 4 0 High Wind (non-convective)
 Downed power lines and trees resulted from high winds.

Montgomery County 13 1620EST 0 1 4 ? High Wind
 Schoharie County 13 1622EST 0 0 3 0 High Wind
 NYZ-020 13 1640EST 1 4 5 ? High Wind
 Saratoga County 13 1643EST 1 0 4 ? High Wind
 Washington County 13 1655EST 0 0 3 0 High Wind (all non-convective)
 Powerful winds resulted in widespread power outages and several downed trees. In the Town of Milton, one man was killed when a falling tree crashed through his car windshield.
 M-40-V (Town of Milton)

NEW YORK, Central

Cortland County, Cortland 16 1615EST 0 0 5 ? Thunderstorm Wind
 16 1630EST 0 0 5 0 Lightning
 Madison County, Deruyter 16 1645EST 0 0 0 ? Hail (0.75)
 Oneida County: Sauquoit 16 1650EST 0 0 4 ? Thunderstorm Wind
 Westmoreland 16 1659EST 0 0 3 2 Thunderstorm Wind

Thunderstorms moved across central New York. Damage was primarily to powerlines and downing of trees. Hardest hit area was the city of Cortland. High winds destroyed a steel barn; uprooted and snapped off at the base, five (5) maple trees; and moved steel milk cans weighing several hundred pounds ten feet, shattering windows in a home. Other damage reports indicated lightning had started a house fire.

Broome County: Deposit 21 2003EST 0 0 5 ? Flash Flood
 Sanford 21 2003EST 0 0 5 ? Flash Flood

Heavy rains along the ridge between the Oquaga Creek and the Big Hollow Creek resulted in flash flooding of nine roads in the towns of Sanford and Deposit.

30 NEW YORK, Western

Cayuga County Locke 13 1230 EST 0 0 3 0 Lightning
 A lightning bolt ignited a barn.
 Chautauqua County Jamestown 16 1150 EST 0 0 3 0 TSTM Winds
 Power lines were downed.

Cattaraugus County Cattaraugus 16 1227 EST 0 0 3 0 TSTM Winds
 Fallen tree blocked a road.

Ontario County Naples 16 1353 EST 0 0 4 5 Hail (1.75)

Yates County Branchport 16 1421 EST 0 0 4 5 Hail (1.75)
 16 1500 EST 0 0 3 3 Hail (0.75)
 Hail ravaged vineyards, broke window panes, tore sidings, and punctured roofs of several houses.

Extreme Southern Seneca County (4 miles north of Trumansburg, Tompkins County) 16 1508 EST 0 0 3 0 Hail (0.75)

Tompkins County Groton 16 1547 EST 0 0 4 0 TSTM Wind
 A large tree was uprooted. Radio antennae were blown down.

Cayuga County King Ferry and Maravia 16 1530 EST 0 0 3 0 Hail (1.00)

NYZ003-022 Chemung County Elmira 20 0100 EST 0 0 3 0 Rain

Allegany County Wellsville 20 0730 EST 0 0 3 0 Rain
 Heavy rainfall produced road flooding.

Monroe County Churchville, N. Chili, and Honeoye Falls 21 1330 EST 0 0 3 0 Rain
 Heavy rainfall caused basement flooding in N. Chili, street flooding in Churchville, and small stream (Honeoye Creek) flooding in Honeoye Falls.

Cayuga County Montezuma 21 1600 EST 1 0 3 0 Lightning
 A lightning bolt hit a telephone wire. Electricity surged and traveled through the wire to a house nearby. A woman, 8 months pregnant, who was using the telephone was killed. Lightning, F22P.

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MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	
31 NORTH CAROLINA									
Cumberland Co. 5 SE Cedar Creek	3	1620EST			0	0	0	0	Hail (0.75)
			Severe thunderstorms produced nickel size hail in southeast Cumberland County.						
Lincoln Co.	3	2000EST			0	0	0	0	Hail (0.75)
Catawba Co.	3	2000EST			0	0	0	0	Hail (0.75)
Iredell Co. Mooresville	3	2045EST			0	0	?	?	Hail (2.75)
Rowan Co. Cleveland	3	2125EST			0	0	0	0	Hail (1.75)
Rowan Co. Salisbury	3	2145EST			0	0	0	0	TSTM Winds
Davidson Co. Lexington	3	2200EST			0	0	4	0	Lightning
			Severe thunderstorms developed over the foothills and moved into the piedmont. Nickel to golf ball size hail fell in many areas. Baseball size hail fell in Mooresville. A few trees were blown down near Salisbury. Fire from lightning destroyed a house near Lexington.						
Wilson Co. Wilson	4	1804EST			0	0	0	0	Hail (1.00)
Wilson Co. Wilson	4	1837EST			0	0	0	0	Hail (1.00)
Edgecombe Co. Old Sparta	4	1914EST			0	0	0	0	Hail (1.75)
Pitt Co. 12 W Greenville	4	1915EST			0	0	0	0	Funnel Cloud
			Large hail was reported in Old Sparta and Wilson as large thunderstorms moved across eastern North Carolina. A funnel cloud was sighted 12 miles west of Greenville.						
Cumberland Co. Fayetteville	5	1545EST			0	0	0	0	Hail (1.75)
Cumberland Co. Western	5	1602EST			0	0	0	0	Hail (1.75)
Duplin Co. Magnolia	5	1604EST			0	0	0	0	Hail (0.75)
Johnston Co. near Clayton	5	1700EST			0	0	0	0	Hail (0.75)
Wilson Co. 5 N Wilson	5	1805EST			0	0	0	0	Hail (1.00)
			Nickel and golf ball size hail were reported in a few areas as thunderstorms crossed eastern half of the state. Golf ball size hail covered the ground in Fayetteville.						
Wilks Co. Millers Creek	10	1415EST			0	0	0	0	Hail (0.75)
			Dime size hail was reported at Millers Creek.						
Onslow Co. near Jacksonville	10	1420EST			0	0	0	0	Hail (1.75)
Onslow Co. Jacksonville	10	1420EST			0	0	0	0	Funnel Cloud
Onslow Co. Richlands	10	1435EST			0	0	0	0	Funnel Cloud
Craven Co. New Bern	10	1508EST			0	0	0	0	Hail (0.75)
Craven Co. N of Bridgeton	10	1520EST			0	0	0	0	TSTM Winds
			During the early afternoon thunderstorms produced large hail and damaging winds across the Coastal Plains of North Carolina. Funnel clouds were sighted at Jacksonville and Richlands.						
Gulford Co. Summerfield	10	1700EST			0	0	0	0	TSTM Winds
Davidson Co. Lexington	10	1700EST			0	0	0	0	TSTM Winds
			Trees and power lines were blown down by thunderstorms in the northern Piedmont.						
Gaston Co. Gastonia	10	1713EST			0	0	0	0	Funnel Cloud
Mecklenburg Co. Southern	10	1745EST			0	0	0	0	Hail (0.75)
Mecklenburg Co. 5 W Charlotte	10	1750EST			0	0	0	0	Funnel Cloud
Bladen Co. Northeast	10	1758EST			0	0	0	0	Hail (1.25)
Bladen Co.	10	1800EST			0	0	0	0	TSTM Winds
Forsyth Co. Winston Salem	10	1845EST			0	0	0	0	Hail (0.75)
Warren Co. Norlina	10	1900EST			0	0	0	0	Hail (1.25)
Duplin Co. Magnolia	10	2230EST			0	0	0	0	Waterspout
Carteret Co. near Morehead City	10	2230EST			0	0	0	0	Waterspout
NORTH CAROLINA									
			By late afternoon thunderstorms reformed over the piedmont and coastal areas. Funnel clouds were sighted near Charlotte and Gastonia. Large hail and scattered thunderstorm wind damage was reported east of the mountains. A few trees were blown down in Winston Salem. A waterspout was sighted over the sound near Morehead City.						
Transylvania Co. Rosman	14	1415EST			0	0	0	0	Hail (0.75)
			Dime size hail was reported in Rosman						
Henderson Co. Hendersonville	16	1300EST			0	0	0	0	Hail (0.75)
Stokes Co. King	16	1335EST			0	0	0	0	Hail (1.75)
Davie Co. Mocksville	16	1345EST			0	0	0	0	Hail (0.75)
Cuiford Co. West of Greensboro	16	1428EST			0	0	0	0	Hail (0.75)
Davidson Co. Thomasville	16	1515EST			0	0	0	0	Hail (0.75)
Alamance Co. Graham	16	1520EST			0	0	0	0	TSTM Winds
Orange Co. Hillsborough	16	1535EST			0	0	0	0	TSTM Winds
Durham Co. Durham	16	1600EST			0	0	0	0	TSTM Winds
Moore Co. Southern Pines	16	1743EST			0	0	0	0	Hail (1.50)
Nash Co. Castalia	16	1750EST			0	0	0	0	Hail (0.75)
Cumberland Co. Fayetteville	16	1837EST			0	0	0	0	Funnel Cloud
Gaston Co. Gastonia	16	1900EST			0	0	0	0	Hail (0.75)
Johnston Co. Western	16	1945EST			0	0	0	0	TSTM Winds
Johnston Co. Stanley Co. Locust	16	2025EST			0	0	0	0	Hail (1.75)
			Nickel size hail was reported in Hendersonville as thunderstorms moved into the mountains. Later in the afternoon as the area of thunderstorms moved into the piedmont, numerous locations reported large hail with a few reports of wind damage. A funnel cloud was reported near Fayetteville. Most of the wind damage was minor, consisting of trees blown down.						
Rutherford Co. Forest City	17	1300EST			0	0	0	0	Hail (0.75)
Polk Co. Southern Polk Co.	17	1300EST			0	0	0	4	Hail (1.75)
Catawba Co. Hickory Airport	17	1307EST			0	0	0	0	TSTM Winds (50)
Cleveland Co. Earl	17	1320EST			0	0	0	0	Hail (1.75)
Cumberland Co. Ft. Bragg	17	1325EST			0	0	0	0	Hail (0.75)
Harnett Co. near Lillington	17	1330EST			0	0	0	0	TSTM Winds
Iredell Co. Western	17	1335EST			0	0	0	0	Hail (1.75)
Iredell Co. Guilford Co. Pleasant Garden	17	1340EST			0	0	0	0	Hail (0.75)
Cleveland Co. 5 N Shelby	17	1345EST			0	0	0	0	TSTM Winds
Cumberland Co. Northern	17	1345EST			0	0	0	0	Hail (1.75)
Cumberland Co. Cleveland Co. 4 E Shelby	17	1350EST			0	0	0	0	Hail (0.75)
Davidson Co. Thomasville	17	1350EST			0	0	0	0	TSTM Winds
Davidson Co. Thomasville	17	1400EST			0	0	0	0	Funnel Cloud
Gaston Co. Southern	17	1405EST			0	0	0	0	Hail (0.75)
Gaston Co. Eastern	17	1417EST			0	0	0	0	Hail (0.75)
Gaston Co. Scotland Co. Laurinburg	17	1417EST			0	0	0	0	Hail (1.00)
Davie Co. Southern	17	1425EST			0	0	0	0	Hail (1.00)
Davie Co. Forsyth Co. near Clemmons	17	1425EST			0	0	0	0	Hail (0.75)
Robeson Co. North of Red Springs	17	1425EST			0	0	0	0	TSTM Winds
Gaston Co. Gastonia	17	1430EST			0	0	3	0	TSTM Winds

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

NORTH CAROLINA

Mecklenburg Co. near Charlotte	17	1430EST			0	0	0	0	Hail (0.75)
Guilford Co. Southwest	17	1440EST			0	0	0	0	Hail (0.75)
Alamance Co. Southwest	17	1440EST			0	0	0	0	Hail (1.75)
Saunders Co.	17	1445EST			0	0	0	4	Hail (1.75)
7 N Autryville	17	1450EST			0	0	0	0	Hail (1.75)
Mecklenburg Co. near Charlotte	17	1500EST			0	0	0	0	Hail (0.75)
Mecklenburg Co. Eastern	17	1500EST			0	0	0	0	Hail (1.75)
Wayne Co. Goldsboro	17	1500EST			0	0	3	0	TSTM Winds
Johnston Co. near Benson	17	1503EST			0	0	0	0	Hail (0.75)
Guilford Co. Greensboro	17	1515EST			0	0	0	0	Hail (0.75)
Mecklenburg Co. N of Charlotte	17	1515EST			0	0	0	0	TSTM Winds
Cabarrus Co. Concord	17	1515EST			0	1	0	0	Lightning
Cumberland Co. Spring Lake	17	1523EST			0	0	0	0	Hail (0.75)
Union Co. Northwest	17	1528EST			0	0	0	0	Funnel Cloud
5 S Snow Hill	17	1530EST			0	0	0	0	Hail (1.00)
Columbus Co. Chadbourn	17	1534EST			0	0	0	0	Hail (0.75)
Union Co.	17	1540EST			0	0	0	0	Hail (0.75)
Northern Union Co.	17	1540EST			0	0	0	0	TSTM Winds
Randolph Co. Northern	17	1540EST			0	0	0	0	TSTM Winds
Edgecombe Co. Macesfield	17	1540EST			0	0	0	0	TSTM Winds
Wilson Co. Southern	17	1540EST			0	0	0	0	TSTM Winds
Mecklenburg Co. Charlotte	17	1600EST			0	0	0	0	Hail (0.75)
Alamance Co. Burlington	17	1605EST			0	0	0	0	Hail (1.75)
Guilford Co. 3 NW Greensboro	17	1609EST			0	0	0	0	TSTM Winds
Bladen Co. White Oak	17	1615EST			0	0	0	0	Hail (1.00)
Chatham Co. 10 NE	17	1620EST			0	0	0	0	Funnel Cloud
Pittsboro	17	1637EST			0	0	4	0	TSTM Winds
Davidson Co. High Rock	17	1645EST			0	0	0	0	TSTM Winds
Onslow Co. Jacksonville	17	1700EST			1	0	0	0	Lightning
Gates Co. Northern	17	1727EST			0	0	0	0	Hail (0.75)
Wake Co. Raleigh	17	1735EST			0	0	0	0	Hail (1.00)

During the early afternoon large hail fell across Rutherford and Polk counties producing significant damage to the early apple crop in those areas. Shortly after, large thunderstorms erupted over much of the state, producing widespread hail and wind damage. Golf ball size hail was reported during the day from the foothills to the coastal plain. Trees and power lines were blown down in Lillington, Thomasville, Benson, High Rock, and across northern Randolph County. Strong winds shattered car windows in Gastonia. Windows were blown out of a store front in Macesfield. Near Williamston, falling trees destroyed a mobile home. Funnel clouds were reported near Snow Hill, Pittsboro and Thomasville. A 25 year old man was injured by lightning while talking on the phone in Spring Lake. A Jacksonville man was killed when he was struck by a tree that was split by lightning. N260, Lightning.

Tyrrell Co. Northern Tyrrell Co.

A funnel cloud was reported over northern Tyrrell County.

Iredell Co. Northern Statesville
Iredell Co. Mooresville

Nickel to dime size hail fell in Iredell County.

NORTH CAROLINA

Hoke Co. 3 N McCain	19	2045EST	0.4	50	0	0	3	0	Tornado (F0)
A small tornado touched down briefly 3 miles north of McCain, just east of NC Highway 211. Many large trees were blown down.									
Johnston Co. Smithfield	19	1630EST			0	0	0	0	Funnel Cloud
Robeson Co. Lumberton	19	1730EST			0	0	0	0	TSTM Winds
Wake Co. Raleigh	19	1755EST			0	0	0	0	Hail (0.75)
Wake Co. North	19	1815EST			0	0	0	0	Hail (1.00)
Durham Co. 2 N Durham	19	1905EST			0	0	0	0	Hail (0.75)
Granville Co. E of Butner	19	1912EST			0	0	0	0	Hail (0.75)
Hertford Co. Murfreesboro	19	1930EST			0	0	4	0	TSTM Winds
Wilson Co. Wilson	19	1935EST			0	0	0	0	Hail (0.75)
Wilson Co. Elm City	19	2010EST			0	0	0	0	TSTM Winds
Columbus Co. 3 E Evergreen	20	0100EST			0	0	0	0	Hail (0.75)
A funnel cloud passed over Smithfield. Trees were reported snapped off in the area. A large barn was moved off its foundation and trees were downed in Murfreesboro. Trees were downed and large hail fell across northern Wilson County from Elm City to Town Creek.									
Pitt Co. Calico	20	1624EST			0	0	0	0	Hail (0.75)
Martin Co. Jamesville	20	1634EST			0	0	0	0	Hail (1.50)
Bertie Co. Merry Hill	20	1709EST			0	0	0	0	Hail (1.75)
Gates Co. Sunbury	20	1720EST			0	0	0	0	Hail (0.75)
Chowan Co. Rockyhook	20	1735EST			0	0	0	0	TSTM Winds
Nickel size hail fell for five minutes and covered the ground in Calico. Trees were blown down north of Edenton.									
Gaston Co. Dallas	23	1815EST			1	0	0	0	Lightning
Lincoln Co. near Lincolnton	23	1820EST			0	0	0	0	Hail (1.25)
Davidson Co. Thomasville	23	1935EST			0	0	0	0	TSTM Winds
Guilford Co. Greensboro	23	1958EST			0	0	0	0	TSTM Winds (50)
Union Co. Marshville	23	2010EST			0	1	5	0	TSTM Winds
Randolph Co. Northern	23	2015EST			0	0	0	0	Hail (1.75)
Rockingham Co. Northern	23	2030EST			0	0	0	0	TSTM Winds
Rockingham Co. Northern	23	2030EST			0	0	5	0	TSTM Winds
Alamance Co. Northwest	23	2105EST			0	0	3	0	TSTM Winds
Person Co. Orange Co.	23	2120EST			0	0	3	0	TSTM Winds
Hillsborough	23	2130EST			0	0	0	0	TSTM Winds
Durham Co. Wake Co.	23	2200EST			0	0	0	0	TSTM Winds
Raleigh	23	2355EST			0	0	0	0	TSTM Winds
Surry Co. East of Mt. Airy	23	2355EST			0	0	0	0	TSTM Winds

A woman near Dallas in Gaston County was killed when a tree was split by lightning and fell on her car. A few trees were blown down in the Greensboro area. The roof was blown off a house, three sheds were destroyed and many trees were blown down in Union County. A man near Marshville was injured when a tree fell on his head. In Alamance County numerous trees were blown down; one destroyed a mobile home. Downburst winds also took the roof off one house, damaged 15 other buildings. Many trees were blown down in Surry, Orange and Wake counties. N37V, Lightning.

Cleveland Co. near Shelby
Cleveland Co. 15 E Shelby
Franklin Co. Centerville
Gaston Co. Gastonia
Warren Co. Southeast
Warren Co. Halifax Co. Essex

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	

NORTH CAROLINA									
Mecklenburg Co. Charlotte	24	1430EST			0	0	0	0	Hail (0.90)
Severe thunderstorms produced nickel to quarter size hail over much of the Piedmont. One mobile home was overturned and one was damaged near Shelby.									
Union Co. Monroe	24	1500EST	0.3	50	0	0	4	0	Tornado (F1)
A small tornado touched down in the north part of Monroe destroying a shopping center sign and damaging the roof of a business.									
Stanley Co. Albemarle	24	1615EST			0	0	0	0	TSTM Winds
Moore Co. Aberdeen	24	1615EST			0	0	0	0	Hail (1.75)
Lee Co. Eastern Lee Co.	24	1630EST			0	0	0	0	TSTM Winds
Robeson Co. 5 NW Rowland	24	1645EST			0	0	4	0	TSTM Winds
Moore Co. Vass	24	1645EST			0	0	0	0	Hail (0.75)
Robeson Co. 5 W Lumberton	24	1659EST			0	0	0	0	Funnel Cloud
Robeson Co. Pembroke	24	1700EST			0	0	3	0	TSTM Winds
Bladen Co. 6 NW White Oak	24	1700EST			0	0	0	0	Funnel Cloud
Pitt Co. Cedar Creek	24	1715EST			0	0	0	0	TSTM Winds
Robeson Co. 7 NE Lumberton	24	1730EST			0	0	4	0	TSTM Winds
Robeson Co. N of St. Paul	24	1740EST			0	0	0	0	TSTM Winds
Sampson Co. Salemberg	24	1745EST			0	0	4	0	Lightning
Bladen Co. Elizabethtown	24	1750EST			0	0	0	0	TSTM Winds Hail (1.75)
Sampson Co. Spivey's Corner	24	1800EST			0	0	0	5	Hail (1.75)
Sampson Co. Clinton	24	1800EST			0	1	0	5	TSTM Winds Hail (1.75)
Duplin Co. Beulaville	24	1830EST			0	0	0	4	TSTM Winds
Duplin Co. Kenansville	24	1830EST			0	1	5	0	TSTM Winds
Craven Co. Dover	24	1900EST			0	0	0	0	TSTM Winds (52)
Beaufort Co. Chocowinity	24	1900EST			0	0	0	0	TSTM Winds
Pitt Co. near Greenville	24	1900EST			0	0	0	0	TSTM Winds
Jones Co. 4 W Compfort	24	1930EST			0	0	0	0	TSTM Winds
Jones Co. 3 W Trenton	24	1930EST			0	0	4	0	TSTM Winds
Tyrrell Co. Columbia	24	1955EST			0	0	0	0	TSTM Winds (77)
Thunderstorm downburst winds blew down trees and power lines in and near Albemarle, Pembroke, Cedar Creek, Lumberton, Greenville, Compfort and Beulaville. A woman was injured when a tree fell on her mobile home near Clinton. Golf ball size hail with this storm produced \$200,000 damage to tobacco crops. A woman was injured when trees crashed through a mobile home near Kenansville. A second mobile home in the area was overturned. Golf ball size hail fell in Aberdeen. The roof on a church was damaged 5 miles north of Rowland. Funnel clouds were sighted north of Lumberton and 6 miles northwest of White Oak. Golf ball size hail produced \$170,000 damage to cotton crops near Spivey's Corner. Fire, started by lightning severely damaged a school in Salemberg.									

32 NORTH DAKOTA									
ND2014-015-016-017-018	01	1100CST-1700CST			0	0	?	?	High Winds
Warm dry southerly winds of 30 to 50 mph, with higher gusts, occurred over the eastern quarter of North Dakota. A peak wind gust of 59 mph was recorded at the Grand Forks airport, with unofficial reports of gusts to 80 mph in Lisbon (in the southeast corner of North Dakota).									
These strong winds occurred during a drought, and blew topsoil and newly planted seeds off farmland. The blowing dirt reduced visibilities to near zero in many areas.									
The winds came during the period between planting and crop emergence, and the tops of newly emerging crops were blown off.									

NORTH DAKOTA									
In addition, the high winds blew down trees and old barns, caused roof damage to mobile homes and warehouses, and piled large quantities of tumbleweeds into yards.									
Ramsey County, Devils Lake	06	1455CST			0	0	4	0	TSTM Wind (75)
A wind gust to 86 mph was recorded at the Devils Lake airport. The strong winds blew over garbage dumpsters, downed power lines, and blew off railroad crossing gates.									
Hettinger County, New England	06	1850CST			0	0	4	0	TSTM Wind
Winds caused some roof damage in the town of New England.									
Stutsman County, 18W Jamestown	07	1635CST	Short 5-15		0	0	0	0	Tornado (F0)
A tornado was reported by a pilot. No damage occurred.									
ND2015-016-017-018	13	0300CST-0900CST			0	0	?	?	Freeze Damage
Below freezing temperatures destroyed 130,000 acres of sugar beets in the Red River Valley. Temperatures were down in the lower 20s for several hours. A minimum temperature of 20 degrees was recorded at Pembina, in the northeast corner of North Dakota.									
The freezing temperatures occurred during a period of dry, and frequently windy, conditions. This combination caused excessive damage to the sugar beet crop, and many farmers had to reseed their cropland.									
McKenzie County, Watford City	26	0650CST			0	0	0	0	TSTM Wind (52)
Kidder County, Pettibone	26	1550CST			0	0	0	0	Hail (2.00)
Stutsman County, Jamestown	26	1656CST			0	0	0	0	TSTM Wind (65)
A wind gust to 75 mph was recorded at the Jamestown airport.									
Barnes County, Valley City	26	1758CST			0	0	4	4	TSTM Wind (61)
Litchville	26	1820CST			0	0	4	4	TSTM Wind (52)
The high winds and blowing dust caused some crop damage.									
McIntosh County, 9E Ashley	26	1815CST			0	0	0	0	Hail (0.75)
Dickey County, Oakes	26	1815CST			0	0	0	0	TSTM Wind (52)
Cass County: Alice	26	1826CST			0	0	0	0	TSTM Wind (52)
Fargo	26	1930CST			0	0	0	0	TSTM Wind (54)
A wind gust to 63 mph was recorded at the Fargo airport.									
Ransom County: McLeod	26	1925CST			0	0	4	4	TSTM Wind (52)
McLeod	26	1930CST			0	0	4	4	Hail (0.75)
Winds to 60 mph broke off tree limbs 3 to 4 inches in diameter. Hailstones to 3/4 inch and heavy rains also occurred with this storm.									
Richland County, Christine	26	1940CST			0	0	0	0	TSTM Wind (52)
Stark County, Taylor	27	2120CST			0	0	0	0	TSTM Wind (57)
Mercer County, Golden Valley	27	2205CST			0	0	4	0	TSTM Wind
Strong winds combined with heavy rains downed some power lines.									
Ramsey County, Devils Lake	28	1630CST			0	0	0	0	Hail (0.75)
Hail to 3/4 inch was reported in the south part of the City of Devils Lake.									
Cavalier County, 15SE Langdon	28	1750CST	Short 5-15		0	0	0	0	Tornado (F0)
Nekoma	28	1755CST			0	0	0	0	Hail (0.75)
A brief tornado touchdown occurred 15 miles southeast of Langdon near the town of Milton.									
Ramsey County, Devils Lake	28	1948CST			0	0	0	0	Hail (0.75)
Hail to 3/4 inch was reported in downtown Devils Lake.									
Stutsman County, Woodworth	28	2030CST			0	0	0	0	Hail (0.75)
Walsh County, 14SW Grafton	28	2030CST			0	0	0	0	Hail (0.75)
Grand Forks County, Mekinock	28	2150CST			0	0	0	0	Hail (0.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
33 OHIO									
Fulton County	09	1256 EST			0	0	?	0	Hail (0.75)
Paulding County	09	1310 EST			0	0	?	0	Hail (1.12)
Henry County	09	1315 EST			0	0	?	0	Hail (0.75)
Van Wert County	09	1315 EST			0	0	5	0	Lightning
Darke County	09	1325 EST			0	0	?	0	Hail (0.75)
Putnam County	09	1325 EST			0	0	?	0	Hail (0.75)
Putnam County	09	1330 EST			0	0	?	0	Hail (1.00)
					Thunderstorms produced large hail in these counties. Three-quarter inch diameter hail fell in Oakshade, Fulton county; Napoleon, Henry county; Greenville, Darke county; and 3 miles southeast of Continental, Putnam county. One-inch diameter hail fell just northeast of Continental, and just west of Prentiss in Putnam county. One and one-eighth inch diameter hail fell just northeast of Paulding in Paulding county. Lightning struck a house 2 miles west of Van Wert, in Van Wert county. The ensuing fire destroyed the house.				
Butler County	09	1340 EST			0	0	5	0	Thunderstorm Wind
					Strong thunderstorm winds struck the Southern Knolls subdivision on the southwest side of Oxford. Numerous trees were snapped off at 8 to 10 feet above the ground, television antennas were bent over, and many homes suffered roof and siding damage.				
Hancock County	09	1349 EST			0	0	4	0	Thunderstorm Wind
					A thunderstorm produced 60 mph winds at the Findlay airport, and blew down trees and power lines in Findlay.				
Lucas County	09	1354 EST			0	0	?	0	Hail (1.50)
Montgomery County	09	1410 EST			0	0	?	0	Hail (0.75)
Logan County	09	1423 EST			0	0	?	0	Hail (0.75)
					Thunderstorms produced large hail in these counties. One-inch diameter hail fell in Sylvania and one and one-half inch diameter hail fell near the intersection of Alexis and Secor roads in Toledo, both in Lucas county. Three-quarter inch diameter hail fell in and around Dayton, Montgomery county; and West Liberty, Logan county.				
Greene County	09	1450 EST			0	0	5	0	Thunderstorm Wind
					Thunderstorm winds blew a roof off a home, destroyed several outbuildings, blew down power lines and a billboard in the eastern part of Xenia.				
Crawford County	09	1515 EST			0	0	4	0	Thunderstorm Wind
					Thunderstorm winds blew down several trees and power lines, damaged a car, and destroyed a mobile home in Galion.				
Madison County	09	1529 EST			0	0	5	0	Thunderstorm Wind
					A thunderstorm produced 50 to 60 mph winds and blew down trees in West Jefferson. Two barns were destroyed and one severely damaged 5 miles southeast of London.				
Erie County	09	1540 EST			0	0	4	0	Thunderstorm Wind
					A thunderstorm produced 58 mph winds and blew down trees in Vermilion.				
Franklin County	09	1557 EST			0	0	?	0	Hail (0.75)
					A thunderstorm produced three-quarter inch diameter hail at the Port Columbus airport.				
Lorain County	09	1605 EST			0	2	5	0	Thunderstorm Wind
					Strong thunderstorm winds struck many parts of Lorain county. A large barn was severely damaged, one outbuilding was destroyed, and numerous trees were down 3 miles southeast of Huntington. Numerous trees were blown down in Elyria and Grafton, and 61 mph winds were reported at the Lorain light house. Two injuries occurred in Elyria when trees fell on cars.				
Medina County	09	1610 EST			0	0	4	0	Thunderstorm Wind
Ashland County	09	1620 EST			0	0	4	0	Thunderstorm Wind
					Thunderstorms produced damaging winds in these counties. Two large trees were blown down in Spencer, Medina county; and a barn, power lines, and a billboard were blown down in Jerromesville, Ashland county.				
Licking County	09	1622 EST			0	0	5	0	Thunderstorm Wind
					Thunderstorm winds destroyed a house under construction, and blew down trees and outbuildings in Beath.				
Adams County	09	1630 EST			0	0	?	0	Hail (0.75)
Highland County	09	1630 EST			0	0	4	0	Thunderstorm Wind
Adams County	09	1650 EST			0	0	4	0	Thunderstorm Wind
					Thunderstorms produced large hail and damaging winds in these counties. Three-quarter inch diameter hail fell and covered the ground to a depth of 3 inches in Manchester, Adams county. Winds blew off most of a school roof, damaged many downtown roofs, and blew down several limbs in Rainsboro, Highland county. Trees were blown down in Germany Ridge, Adams county.				
OHIO									
Cuyahoga County	09	1630 EST			0	0	5	0	Thunderstorm Wind
Cuyahoga County	09	1650 EST			0	0	4	0	Thunderstorm Wind
Lake County	09	1650 EST			0	0	4	0	Thunderstorm Wind
Summit County	09	1700 EST			0	0	4	0	Thunderstorm Wind
Geauga County	09	1705 EST			0	0	4	0	Thunderstorm Wind
					Thunderstorms produced damaging winds in these counties. Winds of 71 mph overturned 6 airplanes at Burke Lakefront airport in downtown Cleveland, and 60 to 70 mph winds were reported in Cleveland's eastern and southeastern suburbs, Cuyahoga county. Sixty mph winds blew down trees and power lines in Mentor and Willoughby, Lake county. Numerous trees were blown down near the intersection of Route 91 and Theresa road in northern Summit county. Numerous trees were blown down, many windows were blown out and 3 cars were damaged in Chardon, Geauga county.				
Wayne County	09	1634 EST			0	0	4	0	Thunderstorm Wind
					Thunderstorm winds damaged a house and car, and blew down trees in Wooster.				
Muskingum County	09	1707 EST			0	0	?	0	Hail (0.75)
					A thunderstorm produced three-quarter inch diameter hail at the Zanesville airport.				
Scioto County	09	1718 EST			0	0	?	0	Hail (0.75)
					A thunderstorm produced three-quarter inch diameter hail in Portsmouth.				
Ashtabula County	09	1730 EST			0	0	4	0	Thunderstorm Wind
					A thunderstorm produced 61 mph winds at the Ashtabula Light House.				
Guernsey County	09	1735 EST			0	0	4	0	Thunderstorm Wind
					Thunderstorm winds blew down trees just north of Cambridge.				
Mahoning County	09	1800 EST			0	0	4	0	Thunderstorm Wind
Trumbull County	09	1800 EST			0	0	4	0	Thunderstorm Wind
Columbianna County	09	1810 EST			0	0	4	0	Thunderstorm Wind
					Thunderstorm winds blew down trees and power lines at different locations in each county.				
Gallia County	09	1817 EST			0	0	4	0	Thunderstorm Wind and Hail (0.88)
					Thunderstorm winds blew down trees and power lines, and dropped nickel size hail in and near Gallipolis.				
Knox County	13	1300 EST			1	0	0	0	Lightning
					Lightning struck and killed a woman while riding a tractor near Howard. F32V.				
Lorain County	15	1440 EST			0	0	?	0	Hail (0.75)
Lorain County	15	1525 EST			0	0	?	0	Hail (1.00)
Cuyahoga County	15	1530 EST			0	0	?	0	Hail (0.75)
Medina County	15	1646 EST			0	0	?	0	Hail (0.75)
Cuyahoga County	15	1658 EST			0	0	?	0	Hail (1.75)
Cuyahoga County	15	1710 EST			0	0	?	0	Hail (1.75)
Medina County	15	1720 EST			0	0	?	0	Hail (1.00)
Summit County	15	1750 EST			0	0	?	0	Hail (1.00)
Summit County	15	1815 EST			0	0	?	0	Hail (1.50)
Portage County	15	1825 EST			0	0	?	0	Hail (1.75)
					Thunderstorms produced large hail in these counties. Three-quarter inch diameter hail fell across northern Lorain county; many of Cleveland's western suburbs, Cuyahoga county; and in Medina, Medina county. One inch diameter hail fell in North Ridgeville, Lorain county; Medina, Medina county; and in Bath and just south of Peninsula, at the Blossom Music Center, Summit county. One and one-half inch diameter hail fell in Fairlawn, Cuyahoga Falls, Stow and just south of Peninsula, all in Summit county. One and three-quarter inch diameter hail fell in Maple Heights, Orange, and Bedford, Cuyahoga county; and Kent in Portage county.				
Williams County	15	1830 EST			0	0	5	0	Thunderstorm Wind
Fulton County	15	1845 EST			0	0	5	0	Thunderstorm Wind
					Thunderstorms produced damaging winds in these counties. Numerous trees and power lines were blown down in Montpelier, Alvordton, Stryker, and West Unity. One house was severely damaged in Montpelier from a falling tree, all in Williams county. Numerous trees and power lines were blown down in Fayette, Lyons, and near Metamora and Assumption. Strong winds damaged and blew a roof off barns on Route 20, and moved a building off its foundation on Route 64, all near Assumption. A mobile home was moved off its foundation on Route 108 near Oakshade, all in Fulton county.				
Portage County	15	1855 EST			0	0	?	0	Hail (2.00)
					A thunderstorm produced one and one-half to two inch diameter hail in Ravenna.				

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS								KILLED	INJURED	PROPERTY	CROPS			
OHIO											OKLAHOMA											
Lucas County	15	1900 EST			0	0	4	0		Thunderstorm Wind	Ottawa County,	08	1219CST			0	0	?	?	TSTM Wind		
Ottawa County	15	1940 EST			0	0	4	0		Thunderstorm Wind	Miami											
Lorain County	15	1953 EST			0	0	4	0		Thunderstorm Wind	A thunderstorm produced winds which blew down several trees and power poles.											
Lorain County	15	2010 EST			0	0	4	0		Thunderstorm Wind	Oklahoma County,	11	1800CST			0	0	?	?	Hail (1.00)		
Cuyahoga County	15	2020 EST			0	0	4	0		Thunderstorm Wind	A thunderstorm produced one-inch size hail.											
Ashtabula County	15	2115 EST			0	0	4	0		Thunderstorm Wind	Pawnee County,	15	1805CST			0	1	5	?	TSTM Wind		
Thunderstorms produced damaging winds in these counties. Homes were damaged in Sylvania, and trees and power lines were blown down in Holland and South Toledo, Lucas county. Trees and power lines were blown down in western Ottawa county and a truck was destroyed by a falling tree in Marblehead, Ottawa county. 62 mph winds occurred in northern Lorain county, and 60 mph winds blew down trees just west of Elyria, Lorain county. 60 mph winds were reported in North Royalton, Cuyahoga county. 60 mph winds occurred at the Ashtabula Light House, Ashtabula county.											Blackburn	15	1810CST			0	0	6	?	Hail (2.75)		
Mahoning County	15	1940 EST			0	0	?	0		Hail (1.00)	5 NE Pawnee	15	1814CST			0	0	?	?	Hail (1.75)		
Trumbull County	15	1940 EST			0	0	?	0		Hail (1.00)	Garfield County,	15	1815CST			0	0	?	?	Hail (1.75)		
Thunderstorms produced large hail in these counties. One-inch diameter hail fell in North Jackson, Mahoning county; and one-inch diameter hail covered the ground in Lordstown, Trumbull county.											6 S Covington	15	1830CST			0	0	?	?	Hail (1.75)		
Adams County	23	1515 EST			0	0	?	0		Hail (1.00)	Garfield County,	15	1836CST			0	0	?	?	Hail (1.75)		
Adams County	23	1525 EST			0	0	?	0		Hail (1.75)	8 S Covington	15	1836CST			0	0	?	?	Hail (1.75)		
One-inch hail fell 6 miles southeast of West Union. Golfball size hail was later reported 1 mile east of West Union.											Pawnee County,	15	1844CST			0	0	5	?	Hail (2.25)		
Entire State	Entire Month				0	0	0	C		Drought	Payne County,	15	1845CST			0	0	?	?	Hail (1.00)		
Drought conditions worsened during the month across all of Ohio. The agricultural community was feeling most of the negative effects from the drought as crops planted in the spring were struggling. Many cities and towns started water rationing programs due to the lowering of the water table.											Logan County,	15	1849CST			0	0	5	?	Hail (2.00)		
The average precipitation for the state was only 47 percent of normal which translates into 1.78 inches. The driest area in Ohio was North-Central Ohio where the average rainfall was only eighty-four hundredths of an inch. The Southeast part of the state averaged two and forty-three hundredths inches for the wettest.											2 E Marshall	15	1853CST			0	0	?	?	TSTM Wind		
The Palmer Drought Severity Index ranged from Extreme in South-Central Ohio to Mild in Northeast Ohio. Area-averaged precipitation needed to end the drought ranged from 9.3 inches in South-Central Ohio to 3.1 inches in Northeast Ohio.											Pawnee County,	15	1853CST			0	0	5	?	Hail (2.50)		
											Quay	15	1910CST			0	0	?	?	Hail (0.75)		
											Logan County,	15	1915CST			0	0	6	?	TSTM Wind		
											2 E Marshall	15	1915CST			0	0	?	?	Hail (1.75)		
											Tale	15	1917CST			0	0	?	?	Hail (2.25)		
											Payne County,	15	1928CST			0	0	?	?	Hail (0.75)		
											3 E Cushing	15	1929CST			0	0	?	?	Hail (0.75)		
											Canadian County,	15	1939CST			0	0	?	?	Hail (0.75)		
											Nr Piedmont	15	1944CST			0	0	4	?	Lightning		
											Payne County,	15	1947CST			0	0	?	?	Hail (1.25)		
											Stillwater	15	1947CST			0	0	?	?	Hail (1.00)		
											Creek County,	15	2015CST			0	0	?	?	Hail (1.75)		
											Drumright	15	2020CST			0	0	?	?	Hail (0.75)		
											Payne County,	15	2020CST			0	0	?	?	Hail (0.75)		
											10 W Stillwater	15	2030CST			0	0	4	?	TSTM Wind (65)		
											Oklahoma County,	15	2036CST			0	0	5	?	Hail (1.75)		
											SW Oklahoma City	15	2040CST			0	0	?	?	Hail (1.00)		
											Canadian County,	15	2044CST			0	0	?	?	Hail (0.75)		
											3 SE Piedmont	15	2051CST			0	0	?	?	Hail (1.00)		
											Noble County,	15	2100CST			0	0	5	?	TSTM Wind (52)		
											8 N Perry	15	2103CST			0	0	5	?	Hail (0.88)		
											Oklahoma County,	15	2130CST			0	0	?	?	TSTM Wind (70)		
											NW Oklahoma City	15	2133CST			0	0	6	?	TSTM Wind (70)		
											Pawnee County,	15	2145CST			0	0	?	?	Hail (0.75)		
											Pawnee	15	2152CST			0	0	7	?	Hail (1.50)		
											Lincoln County,	15	2200CST			0	0	?	?	Hail (0.75)		
											Nr Tyron	15	2215CST			0	0	?	?	Hail (1.00)		
											Oklahoma County,	15	2245CST			0	0	?	?	Hail (0.75)		
											W Oklahoma City	15	2250CST			0	0	?	?	Hail (1.00)		
											Lincoln County,	15	2315CST			0	0	?	?	Hail (0.88)		
											Carney	15										
											Oklahoma County,											
											Will Rogers Arpt.											
											Oklahoma County,											
											W Oklahoma City											
											Logan County,											
											12 S Guthrie											
											Oklahoma County,											
											2 E Edmond											
											Lincoln County,											
											1 S Jacktown											
											Oklahoma County,											
											N Oklahoma City											
											Pottawatomie County,											
											5 NW Shawnee											
											Oklahoma County,											
											Del City and											
											Midwest City											
											Cleveland County,											
											Norman											
											Cleveland County,											
											Ern Norman											
											Pottawatomie County,											
											4 N Asher											
											McCain County,											
											Purcell											
											Pontotoc County,											
											10 W Ada											
											Several large thunderstorm complexes developed across northern sections of Oklahoma and moved southward producing hail up to baseball size and winds up to 80 mph. The winds destroyed barns, outbuildings and uprooted many trees as well as downing power poles and lines. The combination of hail along with the wind caused considerable more damage, as sides of houses, cars, and buildings suffered as much damage as the tops. Several mobile homes were also destroyed. A man was injured by baseball size											

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

OKLAHOMA

		<p>hail as he attempted to bring a horse in from a pasture near Blackburn. Hail in the one to two inch size piled up to 18 inches deep about 6 miles south of Pamee. Hail piled up to near 10 inches across sections of south Del City and across Interstate 240 causing numerous automobile accidents. Damage estimates from the storms are incomplete, but will probably reach around \$25 million.</p>							
Creek County, Drumright	20	1635CST			0	0	?	?	Hail (1.75)
Blaine County, 5 NE Canton	20	1750CST			0	0	?	?	Hail (0.75)
Custer County, 15 W Clinton	20	1930CST			0	0	?	?	Hail (0.75)
<p>Scattered thunderstorms produced brief periods of heavy rain and hail up to golfball size. No estimate of damage is available.</p>									
Cimarron County, 5 W Felt to 13 SW Boise	30	1815CST	10.0	75	0	0	4	?	Tornado (F1)
<p>A tornado set down 5 miles west of Felt and touched down intermittently as it moved northeast, and dissipated 13 miles southwest of Boise City. The tornado caused damage to irrigation equipment and a barn. Damage was estimated at \$10,000.</p>									
Greer County, 8 W Willow	31	1500CST			0	0	?	?	Hail (0.75)
Greer County, Mangum	31	1530CST			0	0	?	?	Hail (1.00)
Beckham County, 1 S Carter	31	1535CST			0	0	?	?	Hail (1.00)
Greer County, 2 W Granite	31	1550CST			0	0	?	?	Hail (1.75)
<p>Thunderstorms developed across the southwest part of the state producing some locally heavy rains and hail up to the size of golfballs.</p>									

35 OREGON

ORZ010 Umatilla County	12	1930-2100PST			0	0	?	0	High Wind
<p>A squall line developed in the thermal trough east of the Cascades ahead of a cold front, and thunderstorms and gusty winds resulted. Winds gusted to 60 mph at the Pendleton Weather Service Office. No significant damage was reported.</p>									

36 PENNSYLVANIA, Eastern

Lancaster County: near Lititz	10	1712 EST			0	0	0	?	Hail(0.75)
near Manheim	10	1712 EST			0	0	0	?	Hail(0.75)
Elizabethtown	10	1810 EST			0	0	0	?	Hail(0.75)
3 W Lancaster	10	1915 EST			0	0	3	?	TSTM Wind
W Lancaster	10	1922 EST			0	0	3	?	TSTM Wind
<p>Thunderstorms moving across Lancaster County dropped 3/4 inch hail at Elizabethtown and near Lititz and Manheim. Thunderstorm wind gusts brought trees down in the Lancaster area.</p>									
Dauphin County: Rutherford Heights	10	1738 EST			0	0	0	0	Hail(1.00)
Celestial Park	10	1739 EST			0	0	0	0	Hail(0.75)
Elizabethville	10	1751 EST			0	0	0	?	Hail(1.00)
<p>Hail 3/4 inch to quarter size fell from thunderstorms in Dauphin County.</p>									
Chester County: 5 NW Coatesville	10	1945 EST			0	0	0	?	Hail(0.75)
2 W Coatesville	10	1950 EST			0	0	0	?	Hail(0.75)
3 N Coatesville	10	2002 EST			0	0	0	?	Hail(0.75)
Dawningtown	10	2016 EST			0	0	0	?	Hail(0.75)
Dawningtown	10	2026 EST			0	0	0	?	Hail(0.75)
<p>Thunderstorms dropped 3/4 inch hail in western Chester County.</p>									

PENNSYLVANIA, Eastern

Northumberland County: 3 N Shamokin	13	1720 EST			0	0	3	?	TSTM Wind
Shamokin	13	1725 EST			0	0	3	?	TSTM Wind
Mount Carmel	13	1730 EST			0	0	3	?	TSTM Wind
3 N Shamokin	13	1745 EST			0	0	3	?	TSTM Wind
Shamokin	13	1745 EST			0	0	3	?	TSTM Wind
Mount Carmel	13	1745 EST			0	0	3	?	TSTM Wind
<p>Thunderstorm wind gusts brought down branches in Shamokin and brought down trees just north of Shamokin. Large branches were brought down in Mount Carmel and along the road between Shamokin and Elysburg. The thunderstorms also had brief heavy downpours in all these locations.</p>									
Bucks County, 2 SW Glenside	13	2100 EST			1	12	0	0	Lightning
<p>A lightning strike at an outside party of the Beaver College graduation class injured 12 students and killed one.M210</p>									
Fulton County: near Needmore	16	1330 EST			0	0	3	?	TSTM Wind
near McCannellsburg	16	1340 EST			0	0	0	?	Hail(1.00)
<p>Thunderstorms brought down trees and dropped 1/2 inch hail near Needmore. Thunderstorms also dropped 1/2 to 1 inch hail near McCannellsburg.</p>									
Adams County	17	1300 EST			0	0	3	0	Flash Flood
<p>One to four inches of rain fell over the county in the early afternoon with four and one half inches falling near Cashtown. By 2 PM EDT the Conowing Creek was out of its banks at the headwaters. By 4:45 PM EDT there was considerable urban and roadway flooding. In the late afternoon slow-moving thunderstorms were still over the southern portion of the county. At 7:30 PM EDT some small streams continued out of their banks while others were still rising. Some roads were closed due to the flooding. At 8:25 PM EDT roads were still closed with some streams out of their banks. Flooding of basements was also reported.</p>									
York County: 1 E Abbotstown	17	1448 EST			0	0	0	?	Hail(1.75)
SpringGrove	17	1524 EST			0	0	0	?	Hail(0.75)
Hanover	17	1540 EST			0	0	3	?	TSTM Wind
<p>Thunderstorms dropped 1/2 inch hail at Spring Grove and pea size to golf ball size hail just to the east of Abbotstown,Adams County, which is on the York County line. Thunderstorm winds downed power lines in Hanover.</p>									
York County	17	1520 EST			0	0	3	0	Flash Flood
<p>Heavy rain resulted in roadway flooding by 4:20 PM EDT near Hanover. By 4:45 PM EDT there was considerable urban and roadway flooding. At 8:00 to 8:25 PM EDT some roadways still were covered with water and some small streams were still out of their banks and others were still rising.</p>									
Franklin County	18	1925 EST			0	0	4	0	Flash Flood
<p>Northbound lanes on Route 11 flooded in Greencastle at 8:25 PM EDT. By 8:50 PM EDT creeks and rivers in Washington Township were at bankfull and Route 11 was completely closed at Greencastle. At 9:50 PM EDT Route 997 in the Mount Alto area was flooded and closed. At 11:05 PM EDT roadway flooding was reported west of Waynesboro. At 1:25 AM EDT on the 19th many small streams and creeks remained out of their banks and roadways were still flooded and closed. At 5:15 AM EDT streams remained out of their banks and some roads were still completely under water. By 8:42 AM EDT 1 to 3 inches of rain had fallen over the county. By 11:15 AM EDT as much as 5 inches of rain had fallen in the past 24 hours in some locations.</p>									
Adams County	18	2225 EST			0	0	3	0	Flash Flood
<p>The Middle, Friends and Tens creeks in western Adams County were above bankfull at 11:25 PM EDT. At 11:50 PM EDT Marsh Creek was flooding Marsh Creek Road 6 to 8 miles south of Gettysburg. At 1:37 AM EDT on the 19th many streams and small creeks were still out of their banks. At 5:00 AM EDT several small streams were still out of their banks with some roads still flooded. At 6:45 AM EDT some roads were still flooded. By 8:42 AM EDT 1 to 3 inches of rain had fallen over the county.</p>									
Chester County	19	0430 EST			0	0	0	0	Flash Flood
<p>Heavy rain of 2 to 3 inches caused the Brandywine Creek to flood at Downingtown around 5:30 AM EDT and remain above flood stage until 3:00 PM EDT. The Brandywine also flooded at many other locations. At Chadds Ford it went above flood stage at 4:00 PM EDT and did not go below flood stage until around midnight EDT.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

— PENNSYLVANIA, Eastern

Lancaster County	19	0610 EST	0	0	3	0	Flash Flood		
<p>At 7:10 AM EDT Pequea and Conowing creeks were out of their banks. At 8:25 AM EDT Little Chickies Creek was out of its banks and all creeks or small streams were flooding or approaching flood stage. By 8:42 AM EDT 1 to 3 inches of rain had fallen over the county. By 11:55 AM EDT as much as 2 inches of rain had fallen in the past 12 hours. Streams were still above their banks with no downward trend observed, causing 15 roads to be closed by flooding.</p>									
Schuylkill County	19	0300 EST	0	0	0	0	Flood		
<p>Heavy rain of 2 to 3 inches caused flooding on the Schuylkill River and also on some small streams. Some basements were flooded in the Pottsville area. The Schuylkill River went over flood stage at Landingville around 9 AM EDT and did not go below flood stage until around midnight EDT.</p>									
Cleburne County	19	0930 EST	0	0	0	0	Flash Flood		
<p>There was minor flooding in a cottage area of Bold Eagle Township. Twenty families had to be evacuated. The flooding began around 10:30 AM EDT and did not subside until around midnight EDT.</p>									
Berks County	19	1500 EST	0	0	0	0	Flood		
<p>Heavy rain of 2 to 3 inches caused flooding along the Schuylkill River. At Berne flood stage was exceeded at 4 PM EDT and at Reading at 8 PM EDT. The river went below flood stage at 10 PM EDT at Berne and at midnight EDT at Reading.</p>									
Franklin County	19	1640 EST	0	0	4	0	Flash Flood		
<p>Heavy rains around Waynesboro caused small streams and creeks to come out of their banks by 5:40 PM EDT. By 7:00 PM EDT basements and roadways were flooded in the Blue Ridge Summit area. A 16 year boy drove while riding an inner tube on the rain swollen Conococheague Creek. At 9:12 PM EDT it was flooding on small streams in the southwest part of the county due to the opening of the flood gates on the Fort Ritchie Dam.</p>									
Lycoming County	19	1700 EST	0	0	0	0	Flash Flood		
<p>There was minor flooding on Lycoming Creek at Malooka and on Deakman Hollow Road. There was minor flooding on Pine Creek at Jersey Mills and at some cabins from Clear Run to Waterville. A few families had to be evacuated.</p>									
Franklin County	20	0545 EST	0	0	3	0	Flash Flood		
<p>There was flooding on small streams due to more heavy rain on top of up to 5 inches of rain in the previous 48 hours.</p>									
Huntingdon County	20	1610 EST	0	0	4	0	Flash Flood		
<p>At 5:10 PM EDT many small streams were above bankfull in northern Huntingdon County. Streams were still above their banks at 6:15 PM EDT.</p>									
Delaware County:									
Wayne	22	1642 EST	0	0	0	?	Hail(1.00)		
Wayne	22	1647 EST	0	0	0	?	Hail(1.00)		
Upland(7 SW PHL)	22	1712 EST	0	0	0	?	Hail(0.75)		
<p>Thunderstorms dropped 1 inch hail in Wayne and 1/2 inch hail at Upland, a suburb of Chester.</p>									
Cumberland County:									
3 W Goodyear	23	1454 EST	0	0	0	?	Hail(0.75)		
<p>Thunderstorms dropped heavy rain and dime size hail between Pine Grove Furnace and Goodyear.</p>									
Adams County:									
Asper	23	1515 EST	0	0	0	?	Hail(1.75)		
Gardners	23	1525 EST	0	0	0	?	Hail(1.00)		
<p>Thunderstorms dropped 1 inch hail at Gardners and hail the size of ping pong balls at Asper. Heavy rain also accompanied the thunderstorms with 3.4 inches recorded at Gardners and with Route 34 closed by high water at Asper.</p>									
Philadelphia County:									
3 NNE PNE	23	2105 EST	0	0	0	?	Hail(1.25)		
3 NE PNE	23	2120 EST	0	0	3	?	TSTM Wind		
5 SW PNE	23	2130 EST	0	0	3	0	Lightning		
<p>Thunderstorms over extreme northeast Philadelphia dropped 1 to 1 1/2 inch hail and brought down trees and power lines. Lightning caused a fire in a water tower atop the old Frankford Arsenal.</p>									
Bucks County,									
Cornwells Heights	23	2124 EST	0	0	?	?	Hail(0.75) TSTM WIND		
<p>Thunderstorm winds caused damage and also dropped 1/2 inch hail at Cornwells Heights, which is about 4 miles northeast of the North Philadelphia Airport.</p>									

— PENNSYLVANIA, Eastern

Chester County,	24	0100 EST	0	0	5	0	Lightning		
Lisville									
<p>A lightning-caused fire completely destroyed a home, causing \$200,000 damage.</p>									
36 PENNSYLVANIA, Western									
Erie County,	09	1808 EST	0	0	0	0	Hail (0.75)		
16 SW Erie									
<p>Three-quarter inch diameter hail fell at Albion.</p>									
Mercer County,	09	1815 EST	0	0	0	0	Thunderstorm Wind (59)		
6 NE Sharon									
<p>Thunderstorm winds of up to 59 knots downed trees.</p>									
Crawford County,	09	1818 EST	0	0	0	0	Thunderstorm Wind		
16 SW Meadville									
<p>Trees were downed in Jamestown.</p>									
Erie County,	09	1821 EST	0	0	0	0	Thunderstorm Wind (50)		
12 SW Erie									
<p>A fifty knot wind occurred at Franklin Center.</p>									
Mercer County,	09	1830 EST	0	0	0	0	Funnel Cloud Thunderstorm Wind		
14 NW Mercer									
<p>A funnel cloud was seen at the east end of Greenville. Power lines were downed by thunderstorm winds.</p>									
Crawford County,	09	1840 EST	0	0	0	0	Thunderstorm Wind (55)		
13 N Meadville									
<p>A fifty-five knot wind occurred at Cambridge Springs during a thunderstorm.</p>									
Mercer County,	15	2045 EST	0	0	0	0	Hail (0.75)		
Sharon									
<p>Dime size hail fell at Sharon.</p>									
Crawford County,	15	2130 EST	0	0	0	0	Thunderstorm Wind (50)		
15 NW Meadville									
<p>Trees were downed by 50 knot winds at Conneautville.</p>									
Erie County,	15	2130 EST	0	0	0	0	Thunderstorm Wind		
3 NE Erie									
<p>Trees were downed in Lawrence Park.</p>									
Bedford County	18	1855 EST	0	0	0	0	Flood		
<p>Stream and basement flooding occurred.</p>									
Somerset County	18	1855 EST	0	0	0	0	Flood		
<p>Stream and basement flooding occurred.</p>									
Franklin County	19	0100 EST	0	0	0	0	Flood		
<p>Stream and basement flooding occurred.</p>									
Westmoreland County,	19	1430 EST	0	1	0	0	Lightning		
3 E Greensburg									
<p>A man was struck by lightning as he was fishing in Twin Lakes Park.</p>									
Westmoreland County,	19	1528 EST	0	0	0	0	Flood		
Greensburg									
<p>Street and basement flooding occurred.</p>									
Allegheny County	19	1730 EST	0	0	0	0	Flood		
<p>Road and basement flooding occurred in the eastern part of the county.</p>									
Westmoreland County,	19	1755 EST	0	0	0	0	Flood		
12 SW Greensburg									
<p>A mudslide occurred at the intersection of State Route 31 and Interstate 70.</p>									
Westmoreland County	20	1800 EST	0	0	0	0	Flood		
<p>Minor road flooding occurred.</p>									
Somerset County	20	1800 EST	0	0	0	0	Flood		
<p>Minor road flooding occurred.</p>									
Bedford County,	23	1800 EST	0	0	0	0	Flash Flood		
20 NE Bedford									
<p>Small streams and roads flooded; basements flooded in Saxton.</p>									
Bedford County,	23	1800 EST	0	0	0	0	Flash Flood		
6 E Bedford									
<p>Basement flooding occurred in Everett.</p>									
Washington County,	23	1954 EST	0	0	0	0	Thunderstorm Wind		
11 SW Washington									
<p>Power lines were downed in Claysville.</p>									
Washington County,	23	2000 EST	0	0	0	0	Thunderstorm Wind		
12 N Washington									
<p>Trees were downed in Cecil Township.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	
PENNSYLVANIA, Western									
Washington County, Washington	23	2005 EST			0	0	0	0	Thunderstorm Wind Trees were downed in Washington.
Beaver County, 6 S Beaver	23	2020 EST			0	0	0	0	Thunderstorm Wind Trees were downed in Hopewell and Aliquippa.
Allegheny County, Pittsburgh	23	2032 EST			0	0	0	0	Thunderstorm Wind (53) A fifty-three knot wind occurred at the Greater Pittsburgh Airport.
Westmoreland County, 26 NE Greensburg	23	2044 EST			0	0	0	0	Funnel Cloud A funnel cloud was reported over Lower Burrell.
Westmoreland County, 16 NE Pittsburgh	23	2050 EST			0	0	0	0	Hail (1.50) Thunderstorm Wind One and one-half inch hail fell at New Kensington, and thunderstorm winds downed trees.
Allegheny County, 6 E Pittsburgh	23	2055 EST			0	0	0	0	Thunderstorm Wind Trees were downed in the North Hills of Pittsburgh.
Westmoreland County, 21 N Greensburg	23	2110 EST			0	0	0	0	Thunderstorm Wind Trees were downed in Vandergrift.
Armstrong County, 10 S Kittanning	23	2130 EST			0	0	0	0	Thunderstorm Wind Trees were downed in Bethel Township.
Venango County, 5 N Franklin	23	2130 EST			0	0	0	0	Thunderstorm Wind Trees were downed in Sugar Creek.
Somerset County	23	2200 EST			0	0	0	0	Flash Flood Basement and street flooding occurred.
Clearfield County	23	2300 EST			0	0	0	0	Thunderstorm Wind Trees were downed in the northwest corner of the county.
Butler County, 10 SW Butler	24	1600 EST			0	0	0	0	Flash Flood Street and basement flooding occurred in Cranberry, Penn and Middlesex Townships.
37 RHODE ISLAND									
Providence County, Harrisville	22	1800EST			0	0	4	0	Lightning A bolt of lightning struck a tree near a house and then traveled to the basement causing a fire which resulted in injury to three people.
Providence County, Lincoln	24	1400EST-1430EST			0	0	4	0	TSTM winds The National Weather Service reported thunderstorm wind gusts to 51 MPH in the area. Trees were sheared off in Lincoln and fell on the roof of a house, damaging the roof. Scattered power outages were reported in Pawtucket, Central Falls, Lincoln, Cumberland, Woonsocket, North Smithfield and Burrillville as a result of the gusty winds.
38 SOUTH CAROLINA									
Abbeville County, Abbeville	04	1740EST			0	0	3	0	TSTM Wind Several marginally severe thunderstorms moved through parts of the upstate, causing numerous reports of small hail and some minor property damage. A tree was blown across a house in Abbeville and dime size hail was reported at Greenwood and in Greenville. Even some of the smaller hail in Greenville County caused some damage to gardens and crops.
Richland County, 10M NW Columbia	04	1800EST			0	0	2	0	Hail (1.75) Golf ball size hail reported near Lake Murray.
Greenwood County, Greenwood	04	1800EST			0	0	2	2	Hail (0.75) Hail damaged trees and gardens. Hail remained on ground overnight in few areas.
Greenville County, Eastern Greenville	04	2025EST			0	0	2	0	Hail (0.75) Hail fell briefly in eastern Greenville.
SOUTH CAROLINA									
Horry County, Myrtle Beach	10	1205EST			0	0	2	0	Lightning Lightning disrupted power to 350 homes. Hail (0.50) reported.
Chester County, Fort Lawn	10	1910EST			0	0	2	0	TSTM Wind(645) Wind broke limbs and disrupted power. Pea-size hail reported.
Spartanburg County, Chesnee Area	16	1415EST			0	0	3	5	Hail (0.75)
Cherokee County, 1 N Gaffney	16	1445EST			0	0	3	4	Hail (0.75)
1 N Gaffney	16	1445EST			0	0	3	4	TSTM Wind Three areas of severe thunderstorms fired up during the afternoon. The first produced large hail around the Chesnee area in northern Spartanburg County to northern Cherokee County. This caused quite a bit of damage to the peach crop, but damage assessment was difficult because of even more damage the next day. Some cars were damaged by the hail north of Gaffney.
Clarendon County, 1 S Manning	16	1535EST			0	0	3	3	Hail (1.00) Hail south of Manning.
Richland County, Eastern Columbia	16	1640EST			0	0	2	2	Hail (1.00) Hail reported in eastern Columbia.
Berkeley County, St. Stephen	16	1640EST			0	0	0	2	TSTM Wind Large trees down, marble size hail on SC 35 near St. Stephen.
Fairfield County, Winnsboro	16	1646EST			0	0	2	2	TSTM Wind
Winnsboro	16	1646EST			0	0	2	2	Hail (0.75) Winds broke tree limbs, hail reported in Winnsboro. Large tree down.
Chesterfield County, 2 S Chesterfield	16	1740EST			0	0	2	0	TSTM Wind Wind blew a shed down two miles south of Chesterfield in Shiloh Community
Kershaw County, White Rock area	16	1755EST			0	0	0	0	TSTM Winds Trees down.
Orangeburg County, Santee	16	1750EST			0	0	3	0	TSTM Wind
Holly Hill	16	1820EST			0	0	3	3	Hail(0.75) Wind overturned mobile home near Santee. Hail damaged homes and crops at Holly Hill.
Marlboro County, 5 NE Cheraw	16	1800EST			0	0	2	0	Hail (0.75)
5 NE Cheraw	16	1800EST			0	0	3	0	TSTM Wind Wind blew down several trees and power lines 5 miles northeast of Cheraw.
Hampton County, Nixville/Brunson	16	1800EST			0	0	2	2	TSTM Wind
Nixville/Brunson	16	1800EST			0	0	3	4	Hail(1.50) 100 acres watermelons destroyed, also other crop damage reported. Power lines down, falling trees damaged 3 mobile homes and one church.
Richland County, Eastover	16	1800EST			0	0	4	0	Lightning Lightning burned Laboratory in Eastover.
Anderson County, Anderson	16	1820EST			0	0	2	0	Lightning
Sandy Springs	16	1835EST			0	0	2	2	Hail (.75)
Sandy Springs	16	1835EST			0	0	3	0	TSTM Wind
Anderson vicinity	16	1840EST			0	0	3	0	TSTM Wind
Anderson vicinity	16	1855EST			0	0	3	0	TSTM Wind
Anderson vicinity	16	1855EST			0	0	2	0	Hail (0.75)
Spartanburg County, Chesnee	16	1845EST			0	0	2	0	TSTM Wind A severe thunderstorm developed rapidly between Pendleton and Anderson and moved south through Anderson County. At Sandy Springs, there was a distinct path of downburst damage. Roofs and antennas were damaged, and about a dozen large trees were blown down along with some power lines. The storm moved into the city of Anderson as it weakened, but it still produced some large hail - and blew down some power lines. An airplane at the airport was flipped by wind gusts to 44 knots. At about the same time, yet another severe thunderstorm affected the Chesnee area. Trees and power lines were blown down in the town.
Colleton County, Scaoks	16	1858EST			0	0	0	0	TSTM Wind Large oak tree downed by wind.
Berkeley County, Cross	16	1945EST			0	0	0	2	Hail (1.00) Hail near Cross Fire Tower.
Horry County, Aynor	16	2100EST			0	0	4	0	Lightning Lightning set large 79 year old church afire.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	

— SOUTH CAROLINA

Spartanburg County, 3 N Fingerville	17 1218EST				0	0	5	6	Hail (.75)
	17 1240EST				0	0	5	6	Hail (1.75)
Chesnee	17 1248EST				0	0	3	3	Hail (1.0)
	17 1220EST				0	0	3	3	Hail (1.75)
Oconee County, near Walhalla	17 1305EST				0	0	5	6	Hail (1.75)
Cherokee County, 8 NW Gaffney	17 1325EST				0	0	5	6	Hail (1.75)
Oconee County, 2N Blacksburg	17 1315EST				0	0	2	0	Hail (1.00)
Oconee County, 1 W Clemson	17 1315EST				0	0	2	2	Hail (1.00)
Anderson County, Pendleton	17 1320EST				0	0	2	2	Hail (0.75)
Williamston	17 1335EST				0	0	3	2	Hail (1.50)
<p>The "thunderstorm of a lifetime" developed along the SC/NC border in extreme northern Spartanburg County during the early afternoon. This storm, exhibiting supercell characteristics, continued to move along the border, and produced large hail which increased in size and amount. West of Chesnee, the hail reached at least golfball size, but most of the stones were in the 3/4 inch to 1 inch range. The hail piled to several inches on flat ground, and accumulated to knee depth in low spots. Twenty-six hours after the hail fall, there was one washed area where the hail was waist deep and the stones were still about 1 inch in diameter. Property and crop losses were enormous. Many vehicles were dented, windshields were knocked out, and roofs of homes were destroyed. Older residents had never experienced a hailstorm of that magnitude. The storm continued producing large hail into northern Cherokee County before moving completely into North Carolina. Another severe storm developed near Walhalla and moved first southeast, and then the east as it became entrained in the prevailing upper winds. This storm was actually several storms, as it exhibited classic multi-cell severe storm characteristics. It produced golfball hail at Walhalla and then moved into the Clemson area where 1 inch hail and high winds (not quite severe strength) were noted. More reports of large hail came from northern Anderson County as the storm made the turn east, but it weakened considerably over Greenville and Laurens Counties. It redeveloped over Union County and produced several reports of large hail there.</p>									
Horry County, Loris	17 P.M.				0	0	3	0	Lightning Lightning caused power outages in Loris. Small hail in Loris.
Calhoun County, St. Matthews	17 1230EST				0	0	4	0	Lightning
	17 1230EST				0	0	3	3	Hail (1.75) Golf ball size hail. Lightning damaged substation.
Sumer County, Pinewood	17 1325EST				0	0	2	0	TSTM Wind Winds estimated 50 Kts. caused power outages.
Allendale County, Allendale	17 1330EST				0	0	3	0	TSTM Wind
	17 1330EST				0	0	2	0	Hail (0.75) Thunderstorm winds blew down trees on transmission lines and disrupted power to 3500 customers. Hail reported in Allendale.
Darlington County, Darlington	17 1340EST				0	0	3	4	Hail (1.75)
	17 1340EST				0	0	2	0	TSTM Wind Large hail reported in Darlington, trees down.
Hampton County, Estill	17 1400EST				0	0	3	2	TSTM Wind Trees and power line down. Small hail reported.
Bamberg County, Ehrhardt	17 1405EST				0	0	4	0	TSTM Wind Thunderstorm winds destroyed a camper mobile home in Ehrhardt, blew down hundreds of trees. Small hail and trees down near State Park.
Florence County, Florence	17 1430EST				0	0	3	0	Lightning Lightning set home afire, also disrupted power.
York County, Clover	17 1445EST				0	0	2	2	Hail (1.75)
Newberry County, Newberry	17 1445EST				0	0	?	?	Hail (0.75)
Colleton County, Lodge	17 1410EST				0	0	3	2	TSTM Wind
	17 1410EST				0	0	2	0	Hail (0.75)
	17 1430EST				0	0	4	2	TSTM Wind
	17 1450EST				0	0	2	2	Hail (0.75)
<p>Two mobile homes damaged and large trees blown down by thunderstorm winds in Walterboro. Shed destroyed and several large trees felled in Lodge during thunderstorm.</p>									

— SOUTH CAROLINA

Dorchester County, Dorchester	17 1445EST				0	0	2	0	TSTM Wind
	17 1500EST				0	0	2	0	TSTM Wind
	17 1448EST				0	0	2	0	TSTM Wind
Summerville	Wind damaged several roofs in Summerville. Wind gusts in St. George estimated 60 mph broke limbs and power lines.								
St. George									
York County, Clover	17 1445EST				0	0	2	2	Hail (1.75)
Union County, Union	17 1454EST				0	0	0	2	Hail (1.75)
	17 1500EST				0	0	3	0	Hail (1.75)
	17 1515EST				0	0	3	2	Hail (1.75)
Crosskeys									
2 E Union									
Barkeley County, 2W Carnes Crossroads	17 1520EST				0	0	2	3	Hail (1.75)
Charleston County, Lincolnvilla	17 1510EST				0	0	2	0	TSTM Wind Wind and small hail downed trees and interrupted power.
Newberry County, Whitnair	17 1520EST				0	0	2	2	Hail (0.75)
Barkeley County, Munks Corner	17 1530EST				0	0	2	2	Hail (0.75)
Charleston County, Osborn	17 1550EST				0	0	2	0	TSTM Wind
	17 1550EST				0	0	2	0	TSTM Wind Wind and small hail downed several trees in Osborn and in Ravenel.
Ravenel									
Aiken County, Langley	17 1630EST				0	0	4	2	TSTM Wind Home damaged, many trees blown down.
Richland County, White Rock	17 1648EST				0	0	2	3	Hail (1.00)
Lexington County, Gilbert	17 1700EST				0	0	2	2	Hail (0.75)
	17 1713EST				0	0	2	2	Hail (0.75)
	17 1730EST				0	0	2	3	Hail (0.75)
3N Columbia Airport									
Greenwood County, Callison	23 1624EST				0	0	3	0	Hail (1.75)
	23 1624EST				0	0	2	0	TSTM Winds
	23 1655EST				0	0	3	0	Hail (1.75)
	23 1715EST				0	0	3	0	TSTM Wind
South Greenwood									
58 Greenwood									
Spartanburg County, 3N Spartanburg	23 1645EST				0	0	2	0	TSTM Wind
	23 1645EST				0	0	2	0	TSTM Wind
	23 1645EST				0	0	2	0	Hail (1.75)
Wellford	Severe thunderstorms developed late in the day in the upstate. Thunderstorm winds caused damage in the Callison area of southern Greenwood county. This storm moved into the city of Greenwood and weakened, but some large hail was still observed. While this storm was weakening, another severe storm developed and moved into southern Greenwood county, affecting the same areas as the first. This storm contained more wind, and there was quite a bit of tree and power line damage from the southern part of the county into the city of Greenwood. There was also one report of power lines being downed in Ninety Six. An isolated severe storm caused some power lines to be blown down, and produced golfball size hail in the Iyman/Wellford areas of Spartanburg county.								
Wellford									
Newberry County, Silverstreet	23 1619EST				0	0	3	2	Hail (1.75)
	23 1625EST				0	0	3	0	TSTM Wind Thunderstorm with hail broke limbs and disrupted power. Wheat (70 acres) heavily damaged by wind and hail. Roof of barn peeled.
Jalapa									
Newberry County, Whitnair	23 1630EST				0	0	3	0	TSTM Wind Thunderstorm winds and small hail broke large plate glass window of furniture store. Trees down on Church Street.
Newberry County, 7NW Newberry	23 1640EST	0.5	70		0	0	0	2	Tornado (F0) Tornado touched down near milepost 69 on I-26 about 7 miles northwest of Newberry. Tornado blew trees across west lane of I-26. Highway Patrol observed passage of tornado.
Lexington County, Leesville-Batesburg	23 1820EST				0	0	2	0	TSTM Wind Thunderstorm winds accompanied by small hail toppled small pine trees and disrupted power in Batesburg and Leesville area.
Chester County, Great Falls	23 1830EST				0	0	?	?	TSTM Wind Couple of trees down.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

— SOUTH CAROLINA

Lexington County, 7 W Lexington	23	1835EST	0	0	3	4	TSTM Wind Thunderstorm winds felled 30-40 large trees, damaged roof of barn, peeled roof of storage shed, snapped power poles. Small hail accompanied storm. Considerable crop damage.		
Fairfield County, Miford	23	1845EST	0	1	3	0	TSTM Wind Wind accompanied by small hail blew down a large pine that crashed into a home causing heavy damage. A 13 yr. old girl was knocked down by the wind. A funnel cloud was observed during the passage of the storm.		
Lexington County, Lexington	23	1900EST	0	0	2	0	Hail (0.75)		
Lexington County, 4 NE Lexington	23	1900EST	0	0	2	0	TSTM Wind		
Lancaster County, Lancaster	23	1900EST	0	0	2	0	TSTM Wind		
Lancaster County, Lancaster	23	1955EST	0	0	3	0	TSTM Wind Trees down in Lexington and on Old Bush River Road.		
Lancaster County, Lancaster	23	1955EST	0	0	3	0	TSTM Wind Trees down and uprooted, antenna blown down in Lancaster, scattered damage over entire county.		
Richland County, SE of Columbia Cedar Creek	23	1955EST	0	0	2	3	Hail (1.75)		
Richland County, Cedar Creek	23	1915EST	0	0	2	0	TSTM Winds		
Richland County, Blytheood	23	2001EST	0	0	?	?	Hail (0.75)		
Lee County, Dubose area	23	2115EST	0	0	?	?	TSTM Wind Trees down.		
Orangeburg County, Branchville	23	2230EST	0	0	?	?	Hail (0.75)		
Dorchester County, Reevesville	23	2245EST	0	0	2	3	Hail (1.0)		
Dorchester County, Reevesville	23	2245EST	0	0	2	3	Hail (1.0) Hail damaged crops.		
Berkeley County, Eady Town	24	0001EST	0	0	0	0	Hail (1.0) Hail in Eadytown near the Santee Cooper Lakes.		
Clarendon County, Near Lake Marion 1E Turbeville	24	0001EST	0	0	?	?	Hail (0.75)		
Clarendon County, Near Lake Marion 1E Turbeville	24	0001EST	0	0	?	?	Hail (1.25)		
Spartanburg County, Spartanburg	24	1225EST	0	0	?	?	Hail (0.88)		
Union County, Jonesville	24	1320EST	0	0	?	?	Hail (0.75)		
Union County, Union	24	1338EST	0	0	?	?	TSTM Winds		
Union County, Union	There were numerous reports of pea to marble size hail around the upstate. Nickel size hail was reported in Spartanburg and dime size hail fell at Jonesville. Thunderstorm winds blew down a couple of trees in Union.								
York County, 2 S York Sharon	24	1350EST	0	0	?	?	Hail (1.75)		
York County, Sharon	24	1400EST	0	0	?	?	Hail (1.75)		
York County, Newport	24	1415EST	0	0	?	?	TSTM Wind		
York County, 7 E Rock Hill	24	1425EST	0	0	?	?	TSTM Wind Trees down.		
Chester County, SE Richburg	24	1437EST	0	0	?	?	Hail (0.75)		
Newberry County, Prosperity	24	1450EST	0	0	?	?	Hail (0.75)		
Lancaster County, 4NE Fort Hill	24	1500EST	0	0	?	?	TSTM Wind Power lines down in northern Lancaster County near SC 160.		
Richland County, SW Blytheood	24	1500EST	0	0	?	?	TSTM Wind Large tree blown down.		
Fairfield County, Winsboro	24	1518EST	0	0	?	?	Hail (0.75)		
Marion County, Marion	24	1615EST	0	0	2	0	TSTM Wind Wind blew large tree limb on home causing damage to roof.		
Marlboro County, McColl	24	1700EST	0	0	2	0	TSTM Wind		
Marlboro County, Bennettsville	24	1700EST	0	1	3	0	TSTM Wind Thunderstorm winds blew down several trees in McColl, damaging a home. A mobile home near Bennettsville was slightly damaged and a 5 year old boy holding the storm door was injured. A nearby 12 x 14 utility shed was destroyed.		
Calhoun County, Lone Star	24	1730EST	0	0	?	?	TSTM Wind Trees down.		

— SOUTH CAROLINA

Orangeburg County, Elloree	24	1805EST	0	0	?	?	Hail (0.75)		
Orangeburg County, Elloree	24	1805EST	0	0	?	?	TSTM Wind		
Clarendon County, Summerton	24	1810EST	0	0	?	?	Hail (0.75)		
Clarendon County, Summerton	24	1810EST	0	0	?	?	TSTM Winds		
Colleton County, Lodge	24	1810EST	0	0	3	0	TSTM Wind		
Colleton County, Walterboro	24	1830EST	0	0	3	0	TSTM Wind		
Colleton County, Walterboro	24	1830EST	0	0	2	0	Lightning		
Colleton County, Cottageville	24	1840EST	0	0	2	0	TSTM Wind		
Colleton County, Cottageville	Large trees down in Cottageville, Lodge, and Walterboro. Small hail and a store set afire by lightning in Walterboro.								
Beaufort County, Hilton Head Isl.	24	1825EST	0	0	3	0	TSTM Wind Power lines down, several large trees down, small hail on Hilton Head Island.		
Charleston County, North Charleston	24	1847EST	0	0	2	0	Hail (1.75)		
Charleston County, Charleston	24	1855EST	0	0	2	0	Hail (1.00)		
Charleston County, Charleston	24	1930EST	0	0	2	0	TSTM Wind		
Charleston County, Charleston	Golf ball size hail in North Charleston at 1847EST, hail (1.00) in west part of city at 1855EST, large tree down near Airport, hail in downtown ball park at 1930EST.								
Berkeley County, 58 Moncks Corner 3N Goose Creek	24	1920EST	0	0	2	0	Hail (.75)		
Berkeley County, 58 Moncks Corner 3N Goose Creek	24	2000EST	0	0	1	0	TSTM Wind		
Berkeley County, 58 Moncks Corner 3N Goose Creek	A large tree was blown on a house 3 N of Goose Creek.								

39 SOUTH DAKOTA

SDZ004-005-011- 012-017-018-020 Eastern South Dakota	01	0900 to 1900 CST	0	0	0	0	High Wind		
Eastern South Dakota	Strong winds occurred across eastern South Dakota. A peak gust of 58 mph was recorded at Watertown, 52 mph at Aberdeen and 57 mph at Sioux Falls and Huron. Blowing dust reduced visibilities to less than a mile in parts of northeastern South Dakota.								
SDZ007 Black Hills	01	1500 to 2300 MST	0	0	0	0	Snow		
Black Hills	Six to eight inches of snow fell in the Black Hills.								
SDZ003-004-005 Northeastern South Dakota	06	1100 to 2000 CST	0	0	4	0	High Wind		
Northeastern South Dakota	High winds produced blowing dust reducing visibilities to less than one-half mile in northeastern South Dakota. Wind gusts of 62 mph were recorded at Aberdeen. A small building was destroyed in Gettysburg and a building damaged near Timber Lake.								
Hamlin County, Hazel	06	1215 CST	0	0	0	0	Hail (1.00)		
Fall River Co., BS Hot Springs	06	1424 MST	0	0	5	0	TSTM Wind (70)		
Fall River Co., BS Hot Springs	Thunderstorm winds damaged or overturned several mobile homes.								
Pennington Co., Wall	06	1520 MST	0	1	4	0	TSTM Wind (65)		
Pennington Co., Wall	Thunderstorm winds overturned a tractor-trailer injuring the driver. Numerous power poles were downed and a few small buildings were damaged.								
Harding County, SN Ralph	06	1600 MST	0	0	2	0	Lightning		
Perkins County, Zeona	06	1630 MST	0	0	3	0	TSTM Wind (65)		
Haakon County, 37NW Philip	06	1630 MST	0	0	4	0	TSTM Wind (70)		
Haakon County, 37NW Philip	A camper trailer was destroyed and a roof on a building was removed by thunderstorm winds.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
— SOUTH DAKOTA									
Ziebach County, 45N Philip	06	1635 MST		0	0	4	0		TSTM Wind
									An apparent downburst caused severe structural damage to a house.
Perkins County, 1W Bison	06	1700 MST		0	0	4	0		TSTM Wind (65)
									Severe thunderstorm winds destroyed the roof of a trailer home and blew over a grain silo.
Haakon County: 17N Philip	06	1802 MST		0	0	3	0		TSTM Wind (65)
28N Philip	06	1810 MST		0	0	?	0		TSTM Wind
									Severe thunderstorm winds destroyed a small house, a trailer camper and damaged small buildings north of Philip.
Jones County, Okaton	06	1900 MST		0	1	4	0		TSTM Wind
									Thunderstorm winds blew over a tractor-trailer injuring a man.
Dewey County, Blencross	06	1950 MST		0	0	3	0		TSTM Wind
Jackson County, Kadoka	07	0930 MST		0	0	3	0		TSTM Wind (66)
SD7007 Black Hills	08	0400 to 1530 MST		0	0	0	0		Heavy Snow
									Four to twelve inches of snow fell in the Black Hills.
Meade County, 10E Piedmont	18	1230 MST		0	0	?	0		Lightning
									Fire, caused by lightning, destroyed an acre of timberland.
Hanson County, Alexandria	18	1930 MST		0	0	?	0		Lightning
									Lightning caused a fire which destroyed a farmhouse and several bales of hay.
Union County, 4W Alcester	18	1940 CST		0	0	3	0		TSTM Wind (58)
									Thunderstorm winds destroyed a machine shed and downed several trees.
Kingsbury Co., 32ENE Huron	18	2030 CST		0	0	?	0		Lightning
									Lightning ignited and destroyed a barn. Several livestock were killed.
Yankton County, 1W Yankton	20	1426 CST		0	0	0	0		Hail (1.75)
Clay County, 1NE Volin to 1SW Wakonda	20	1528 to 1531 CST	40	0	0	0	0		Tornado (F0)
									A few trees were downed.
Buffalo County, 4SESE Pierre	25	1900 CST		0	0	0	0		Hail (1.75)
Lyman County, 2S Kennebec	25	2030 CST		0	0	0	?		Hail (1.75)
									Two hundred-forty acres of crops were destroyed.
Bennett County, 10E Martin	25	2200 MST		0	0	5	0		Flood
									Four and one-half inches of rain fell in a short period causing flooding. A bridge was destroyed and a dike damaged. Estimates of damage were over \$60,000.
Pennington Co., Norris Peak	26	1800 MST		0	0	0	0		Hail (1.75)
McPherson Co., 15SW Leola	26	1840 CST		0	0	3	0		Hail (1.75)
Brown County, Aberdeen	26	1927 CST		0	0	0	0		TSTM Wind (50)
Faulk County, Onaka	26	1950 CST		0	0	0	0		Hail (1.00)
— SOUTH DAKOTA									
Moody County, 4E Flandreau	27	0150 CST		0	0	?	0		Lightning
									A barn and several bales of hay were destroyed by fire which was started by lightning.
Pennington Co., 5N Rapid City	27	1735 MST		0	0	0	0		TSTM Wind (50)
Clay County, 1N Wakonda	28	0030 CST		0	0	0	0		Hail (2.00)
Turner County, 23SW Sioux Falls	28	2300 CST		0	0	6	0		TSTM Wind (62)
									Thunderstorm winds destroyed 10 irrigators causing \$600,000 in damages.
Clay County, 16E Yankton	29	0030 CST		0	0	3	0		TSTM Wind (64)
									Severe thunderstorm winds blew over power poles, tree limbs and damaged a few small buildings.
Turner County, 28E Parker	29	0050 CST		0	0	1	0		TSTM Wind (56)
Moody County, 17SE Brookings	29	0430 CST		0	0	4	0		TSTM Wind (70)
									Severe thunderstorm winds damaged buildings and trees near Ward.
40 TENNESSEE									
Shelby County, 10NE Memphis	03	1540CST		0	0	0	0		Hail (0.75)
Lake County, Ridgley	03	1605CST		0	0	4	3		Hail (0.75)
Dyer County, Miston	03	1625CST		0	0	2	0		Hail (1.00)
Gibson County, Kenton	03	1700CST		0	0	0	0		Funnel Cloud
	03	1708CST		0	0	2	0		Thunderstorm Wind
	03	1708CST		0	0	2	0		Hail (1.00)
Weakley County: 18W Sharon	03	1710CST	1.5	50	0	0	4	0	Tornado (F0)
		1713CST							
Sharon	03	1715CST		0	0	4	2		Hail (1.75)
Dresden	03	1720CST		0	0	?	?		Funnel Cloud
									Hail (1.00)
									Strong thunderstorms were widespread over the western third of the state, producing severe weather in 5 counties. A tornado touched down briefly near Sharon, knocking down trees, blowing trees against houses, breaking windows and damaging roofs and carports. Large hail damaged cars, buildings and crops in Kenton, Sharon, Miston and Ridgley. Hail piled up 7 inches deep in Ridgley. There were several sightings of funnel clouds.
Franklin County, Winchester	09	1715CST		0	0	2	0		Hail (2.00)
		1730CST							
Robertson County, Springfield	09	1745CST		0	0	2	0		Hail (1.75)
Montgomery County	09	1759CST		0	0	2	0		Hail (1.75)
Houston County	09	1830CST		0	0	2	0		Hail (1.75)
Cheatham County, Pleasant Hill	09	1834CST		0	0	2	0		Hail (0.75)
Montgomery County, Wilson County, Cumberland	09	1830CST		0	0	0	0		Hail (1.75)
	09	1838CST		0	0	2	0		Thunderstorm wind
Clairborne County; Forge Ridge to Little Creek Harrogate	09	2140CST		0	0	4	0		Thunderstorm wind
		2230CST							
									A cold front in the western part of the state moved east through the middle sections late in the day, causing strong thunderstorms in this area. A mobile was destroyed in the Little Creek area, two mobile homes were wrecked in the Harrogate area and a house was damaged in the Forge Ridge area. Several barns around the county were damaged and a number of trees were knocked down and power outages caused by severe thunderstorms in an eight county area.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
— TENNESSEE —										
Knox County	10	1230CST			0	0	4	0		Lightning
Lightning struck numerous power transformers throughout the county, doing serious damage to some of them and leaving thousands of people without electricity for up to six hours. Estimates of the damage were \$6000.00.										
Marian County, Jasper	14	1355CST			0	0	2	0		Hail (1.75)
McMinn County	14	1359CST			0	0	1	0		Hail (0.75)
Hamilton County, Suck Creek	14	1421CST			0	0	2	0		Hail (1.75)
Meigs County	14	1500CST			0	0	1	0		Hail (1.00)
Thunderstorms produced large hail in a number of communities in the four county area during the afternoon.										
Hickman County, Buckenort	16	1426CST			0	0	0	0		Hail (1.75)
Perry County, Linden	16	1440CST			0	0	1	0		Hail (0.75)
Clay County	16	1601CST			0	0	2	0		Hail (1.75)
Livingston County, Alpine	16	1645CST			0	0	1	0		Hail (0.75)
A weak cold front was moving southeast across the state. It caused scattered severe thunderstorms in the middle part of Tennessee during the afternoon. Large hail was reported in a four county area.										
Green County, South Green	18	1430CST			0	0	1	3		Hail (0.75)
Hailstones destroyed tobacco and alfalfa crops. The tobacco patch was a 900 yard area, the alfalfa covered an entire field, most of it was ruined.										
Shelby County: Bartlett	22	1545CST			0	0	2	0		Thunderstorm wind Hail (0.75)
Cordova	22	1550CST			0	0	2	0		Hail (1.75)
Millington to 3NE Millington	22	1630CST-	3	50	0	0	3	0		Tornado (F0)
Decatur County	22	1638CST			0	0	?	?		Funnel Cloud
A tornado, first seen as a funnel cloud over Millington, touched down along Pleasant Ridge road of Millington and traveled northeast for approximately 3 miles. It knocked down trees and power lines and did some minor damage to rooftops of homes before lifting up. Many other parts of a five county area reported half inch hail, while Bartlett had .75 inch and damage due to thunderstorm winds (small trees downed). In Cordova east of Memphis 1.75 inch hail was observed. In Decatur Co. police reported seeing a funnel cloud aloft with plywood and other debris in it.										
41 TEXAS, Northern										
Haskell County	6	1755CST			0	0	?	?		Hail (0.75)
5 W Rule										
Foard County	6	1835CST			0	0	?	?		Hail (0.75)
5 E Crowell										
Jones County Hamlin	6	1915CST			0	0	?	?		TSTM Wind
Thunderstorms developed along a dry line producing scattered areas of hail. Winds broke out several windows and damaged awnings at Hamlin in Jones County.										
Young County	8	0400CST			0	0	?	?		Hail (1.75)
8 NE Graham										
Jack County	8	0400CST			0	0	?	?		Hail (1.75)
12 NE Graham										
Golf ball size hail fell along the Young-Jack County line.										
Dallas County	8	0640CST			0	0	?	?		TSTM Wind
Carrollton										
Collin County Plano	8	0650CST			0	0	?	?		Hail (0.75)
A thunderstorm produced winds which uprooted several large trees in Carrollton and dropped dime size hail in Plano.										
Falls County	9	1835CST			0	0	?	?		Hail (1.75)
3.5 S Otto										
Limestone County: Groesbeck	9	1852CST			0	0	?	?		Hail (1.75)
Groesbeck	9	1900CST			0	0	5	?		Hail (3.50)
Freestone County: Teague	9	1945CST			0	0	5	?		Hail (1.75)
5 E Fairfield	9	1955CST			0	0	?	?		Hail (3.50)
Anderson County: Bois D Arc	9	2035CST			0	0	?	?		Hail (2.75)
Frankston	9	2055CST			0	0	?	?		Hail (1.75)
— TEXAS, Northern										
Cherokee County	9	2110CST-			0	0	?	?		Hail (2.75)
6 WSW Bullard		2120CST								
Smith County: 6 MNW Bullard	9	2110CST-			0	0	?	?		Hail (2.75)
2125CST										
Bullard	9	2125CST			0	0	?	?		Hail (1.75)
Lake Tyler	9	2140CST			0	0	?	?		Hail (1.75)
Rusk County: 1 S Overton	9	2205CST			0	0	?	?		Hail (1.75)
Price	9	2205CST			0	0	?	?		Hail (2.00)
Old London	9	2208CST			0	0	?	?		Hail (2.00)
New London	9	2210CST			0	0	?	?		Hail (2.00)
Jacobs	9	2215CST			0	0	?	?		Hail (1.75)
Gregg County 1 N Easton	9	2235CST			0	0	?	?		Hail (1.00)
Harrison County: Darco	9	2245CST			0	0	?	?		Hail (1.00)
2 S Gill	9	2259CST			0	0	?	?		Hail (0.88)
Panola County 11 NNE Carthage	9	2258CST			0	0	?	?		Hail (1.00)
An intense thunderstorm produced large hail along a path from south of Otto in Falls County through Groesbeck, Teague, Frankston, and Lake Palestine (6 west-southwest and 6 west-northwest of Bullard) to Horton (11 north-northeast of Carthage) in Panola County. Numerous cars were damaged by the hail at Groesbeck, Teague and five miles east of Fairfield. Some hailstones ranged up to 3.5 inches in diameter at Groesbeck and five miles east of Fairfield. Numerous homes and buildings received roof damage in Groesbeck and Teague with windows in several homes broken. Damage was estimated at more than \$100,000 each at both Groesbeck and Teague.										
McLennan County: Waco	9	1952CST			0	0	?	?		Hail (0.88)
Woodway	9	1958CST			0	0	?	?		Hail (1.00)
Waco	9	1959CST			0	0	?	?		Hail (1.75)
Moody	9	2030CST			0	0	?	?		Hail (1.75)
A thunderstorm produced hail which ranged from nickel size to golf ball size in Waco. Golf ball size hail also fell at Moody in southern McLennan County.										
Palo Pinto County: 2 W Possum Kingdom Lake	20	1215CST			0	0	?	?		TSTM Wind
Mineral Wells	20	1240CST			0	0	?	?		TSTM Wind (65)
Parker County: Agnes	20	1325CST			0	0	?	?		TSTM Wind
Weatherford	20	1327CST			0	0	?	?		TSTM Wind (56)
Springtown	20	1327CST			0	0	?	?		TSTM Wind
Tarrant County Fort Worth	20	1413CST			0	0	?	?		Hail (0.75)
Dallas County: Dallas Love Field	20	1445CST			0	0	?	?		Hail (0.75)
6 N Dallas	20	1457CST			0	0	?	?		TSTM Wind (70)
5 NE Dallas	20	1500CST			0	0	?	?		TSTM Wind
Ellis County Waxahachie	20	1455CST			0	0	?	?		TSTM Wind
A squall line moved through North Central Texas producing several areas of hail and wind damage. Winds toppled a television tower two miles west of Possum Kingdom Lake in Palo Pinto County. Winds up to 75 mph were reported at Mineral Wells where numerous trees were uprooted. In Parker County winds up to 65 mph were reported at Weatherford with trees uprooted at Agnes and Springtown. In Dallas County winds up to 80 miles an hour were reported in North Dallas and a tree was uprooted at White Rock Lake. A trampoline was blown on top of a house at Waxahachie in Ellis County.										
Limestone County 2 N Personville	20	2044CST			0	0	?	?		TSTM Wind
Thunderstorm winds uprooted several trees two miles north of Personville.										
Houston County Grapeland	21	2325CST			0	0	?	?		Hail (1.00)
Panola County Beckville	22	0110CST			0	0	?	?		Hail (1.00)
Shelby County Timpson	22	0112CST			0	0	?	?		Hail (0.88)
Thunderstorms produced scattered areas of hail up to one inch in diameter.										
Boque County Cranfills Gap	29	1815CST			0	0	?	?		Hail (1.75)
McLennan County 5 S McGregor	29	1945CST			0	0	?	?		Hail (1.75)
Thunderstorms produced hail up to golf ball size.										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

TEXAS, Northern

Bell County 3 W Temple	31 1630CST	0	0	?	?	TSTM Wind
Hill County 6 NW Whitney	31 1700CST	0	0	?	?	TSTM Wind
Coryell County 4 NNE Turnersville	31 1755CST	0	0	?	?	TSTM Wind
Thunderstorm winds blew the roof off a barn three miles west of Temple in Bell County. Boat storage buildings were damaged by winds six miles northwest of Whitney. Winds damaged a barn and outbuilding four miles north-northeast of Turnersville in Coryell County.						
Baylor County Seymour	31 1847CST	0	0	?	?	Hail (0.75)
Three-quarter inch diameter hail fell at Seymour.						
Archer County Archer City	31 1534CST-1700CST	0	0	?	?	Flash Flooding
Parker County 2 NW Springtown	31 1810CST-1950CST	0	0	?	?	Flash Flooding
Tarrant County Watauga	31 1815CST-1950CST	0	0	?	?	Flash Flooding
Callahan County Cross Plains	31 2000CST-2200CST	0	0	?	?	Flash Flooding
Heavy rains in North Central Texas flooded streets in Archer City, Watauga and Cross Plains. Water flooded Highway 177 two miles northwest of Springtown temporarily closing the highway.						
Eastland County Cisco	31 2050CST-2400CST	0	0	?	?	Flash Flooding
Eastland	31 2050CST-2400CST	0	0	?	?	Flash Flooding
Comanche County DeLeon	31 2200CST-2400CST	0	0	?	?	Flash Flooding
Comanche	31 2200CST-2400CST	0	0	?	?	Flash Flooding
Erath County Dublin	31 2235CST-2400CST	0	0	?	?	Flash Flooding
Heavy rains in the southwest part of North Central Texas produced widespread flooding of streets and roads in Eastland, Comanche, and Erath Counties. By 2400CST on May 31, up to seven inches of rain had fallen in the town of Comanche with up to five inches in DeLeon and over three inches at Dublin. Indian Creek in Comanche was out of its banks. A small creek in DeLeon rose out of its banks sweeping a car downstream. No one was injured. Water was two feet deep in streets in DeLeon where store fronts had to be sandbagged. These rains ended during the morning of June 1 by which time over 14 inches of rain had fallen in the town of Comanche producing widespread flooding with considerable property damage and a dam failure on a small private lake. Additional details of this flooding are included with the June 1 Storm Data.						

41 TEXAS, Southern

Travis County 15NW Austin	16 0825CST	0	0	0	0	Hail (0.75)
Gillespie County 12NW Kerrville	16 0850CST	0	0	0	0	Hail (1.75) Hail the size of ping-pong balls fell 12 miles northwest of Kerrville. Damage not reported.
Kerr County	16 0900CST	0	0	0	0	Hail (1.75) Golfball size hail was reported in the eastern part of the county.
Gillespie County 8S Fredericksburg	16 1000CST	0	0	0	0	Hail (1.75) Golfball size hail fell between Fredericksburg and Kerrville.
Kerr County Hunt	20 0935CST	0	0	0	0	Hail (1.75) Golfball size hail reported near Hunt.
Kerr County Kerrville	20 1010CST	0	0	0	0	Hail (1.75) Golfball size hail fell in Kerrville. Damage not reported.
Real County	20 1245CST	0	0	0	0	Hail (1.00) One inch diameter hail fell in the northern part of the county.
Bandera County Medina	20 1332CST	0	0	0	0	Hail (1.75) Hail the size of ping-pong balls was reported near Medina.
Kerr County Kerrville	20 1535CST	0	0	0	0	Hail (1.75) Golfball size hail reported in and around Kerrville.

TEXAS, Southern

Gillespie County 7S Fredericksburg	20 1600CST	0	0	5	5	Hail (?) Hail did considerable damage to crops, trees, roofs, cars and awnings 7 miles south of Fredericksburg in the community of Whispering Oaks. The hail piled upon US Hwy. 87 south of Fredericksburg and closed the highway for a brief time.
Val Verde County Comstock	20 1953CST	0	0	0	0	Hail (0.75)
Comal County New Braunfels	20 2115CST	0	0	4	4	Hail (?)
	20 2115CST	0	0	5	4	Tstm Wind (?)
Large hail stripped trees and did crop damage in and around the town of New Braunfels. High winds from a thunderstorm blew over large trees. Cars and roofs of homes were damaged from fallen trees. Several mobile homes were rolled over and at least one was totally destroyed. Winds were estimated in the excess of 60 MPH. There was some plane damage at the New Braunfels Airport.						
Gillespie County Fredericksburg	20 2130CST	0	0	0	0	Flash Flooding 4 inches of rain fell in and around Fredericksburg. Low water crossings were flooded.
Medina County Devine	20 2230CST	0	0	4	0	Tstm Wind (?) High winds from a thunderstorm blew a mobile home off its foundation and it was demolished. Nearby trees were also uprooted.
Atascosa County Pleasanton	20 2230CST	0	0	0	?	Tstm Wind (?) High winds from a thunderstorm uprooted large trees in Pleasanton.
Guadalupe County Zorn	20 2230CST	0	0	5	?	Tstm Wind (?) High winds from a thunderstorm damaged roofs of homes and blew over some trees in the northern part of the county east of Zorn. Mobile homes and carports were also damaged.
Jefferson County	21 0430CST	0	0	4	?	Tstm Wind (?) High winds from a thunderstorm blew over numerous trees and damaged awnings in the town of Hamshire.
Jefferson County	21 0502CST	0	0	0	0	Tstm Wind (54) High winds from a thunderstorm gusted to 61 MPH at the NWS office at the Jefferson County Airport. Damage not reported.
Orange County 5SW Orange	21 0542CST	0	0	5	?	Tstm Wind (?) High winds from a thunderstorm blew over trees and power lines 5 miles southwest of Orange. Also at least one mobile home was destroyed in Bridge City where trees and power lines were downed.
Live Oak County Three Rivers	21 0600CST	0	0	0	0	Hail (1.00)
Harris County Grapeland	21 2325CST	0	0	0	0	Hail (1.00)
Austin County Industry	29 1900CST	0	0	0	0	Flash Flooding 4 to 5 inches of rain caused local flash flooding in and around the town of Industry which is in the northwest part of the county. Many roads in the area were impassable because of high water.
Hays County	29 1900CST	0	0	?	?	Flash Flooding 4 to 7 inches rain fell in and around Wimberly. Low water crossings were flooded.
Comal County	29 1930CST	0	0	?	0	Flash Flooding 5 inches of rain fell below Canyon Dam and the resulting flood waters of creeks and streams in the area caused campers to move to higher ground. Low water crossings in the area were also flooded.
Burleson County Caldwell	31 2000CST	0	0	0	?	Tstm Winds (?) Thunderstorm winds estimated greater than 50 MPH downed trees in Caldwell.

41 TEXAS, Western

Colbertson County	01 Aftn-Evng	0	0	0	0	High Wind (65) A west wind preceding a cold front gusted to 65 knots during the afternoon and evening at Guadalupe Pass, in the northwest corner of the county.
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
TEXAS, Western									
Scurry County	06	1730CST 1755CST			0	0	0	0	Hail (0.75) Hail (1.75)
		Dime-sized hail was reported by KSNV Radio at Snyder City Park. No damage was reported. Twenty-five minutes later, the same storm delivered hail the size of golfballs to an area three miles south of Hermligh, in the southern part of the county.							
Crane County	10	1548CST			0	0	0	0	Hail (0.75)
		The public reported 0.75-inch hail in Crane. No damage was noted.							
Lubbock County	10	1645CST 1658CST			0	0	0	0	Hail (1.75) Hail (1.75)
		An off-duty Weather Service Meteorologist encountered penny-sized hail covering Interstate 27 at New Deal, in the northern part of the county. The severe storm moved east-southeast, and at 1658 CST the Idalou Police Department reported golfball-sized hail in Idalou, along with high wind of undetermined speed.							
Terry County	10	1750CST			0	0	3	0	Hail (1.75) TSTM Wind
		The Brownfield Police Department Dispatcher reported that thunderstorm wind of undetermined speed downed power lines in the City of Brownfield. The high wind was accompanied by golfball-sized hail that inflicted minor roof and tree damage from Brownfield to five miles southwest of the city.							
Howard County	10	Est 1800 CST			0	0	5	0	TSTM Wind (Est. 70)
		A thunderstorm moved across the county, doing scattered structural damage at Big Spring and Moss Creek Lake. High winds of unknown speed downed utility lines and unroofed a number of businesses and residences in the Big Spring area. At Moss Creek Lake on the east side of Big Spring an apparent microburst of about 70 knots inflicted significant damage to structures on the lake's north side. The windshields of two pickup trucks were broken out, outhouses and fishing docks heavily damaged, and picnic shelters ripped away.							
Mitchell County	10	Est 1900 CST			0	0	5	0	TSTM Wind
		The Howard County storm moved through Mitchell County and was accompanied by straightline wind that snapped at least 22 power poles. According to Texas Electric, the poles downed were located from Westbrook to nine miles northwest of Westbrook. Radio Station KVMC and Texas Electric in Colorado City received building damage due to the thunderstorm winds.							
Runnels County	10	1908CST			0	0	0	0	Hail (1.75)
		The Department of Public Safety reported golfball-sized hail at Miles. The hail fell without doing any reported damage.							
Concho County	10	1934CST			0	0	4	0	TSTM Wind
		Thunderstorm wind of undetermined speed destroyed the roofs and porches of outbuildings on Farm-to-Market Road 765 four miles east of Eola, in the southern part of the county.							
Tom Green County	10	2057CST			0	0	4	0	TSTM Wind (66)
		Thunderstorm wind gusted to 66 knots at San Angelo Municipal Airport. The combination of wind and half-inch hail caused damage to two aircraft at the airport, and also resulted in window damage to automobiles.							
Concho County	11	0330CST			1	0	4	0	Flash Flooding
		Flash flooding along the normally tranquil Concho River swept through a campsite six miles east of Paint Rock and claimed the life of 67-year old Hazel Dale Peoples. Rains of between three and four inches upstream of the area several hours earlier caused a rapid rise in the river; Mrs. Peoples stepped from her trailer into the unexpected torrent. Her body was recovered two days later, 17 miles downstream. A 23-foot camper, a pickup, and an automobile were also swept away from the Riverside Camping Area.							
									F670
Gaines County	18	1534CST			0	0	0	0	Hail (0.75)
		An Amateur Radio Operator encountered 0.75-inch hail three miles northwest of Seminole. The hail fell in undeveloped farmland and inflicted no damage.							
Reeves County	18	1848CST			0	0	0	0	Hail (0.75)
		A Department of Public Safety Patrolman reported 0.75-inch hail along U.S. Highway 285, 23 miles northwest of Pecos.							
Gray County	18	2033CST			0	0	0	0	Funnel
		A funnel cloud was sighted by the public 1/2 mile west of Pampa.							
TEXAS, Western									
Andrews County	19	1705CST	6	80	0	0	0	0	Tornado (F0)
		A pilot on takeoff at Andrews Municipal Airport sighted a tornado five miles northeast of the City of Andrews. The tornado remained on the ground for 10 minutes.							
Midland County	19	1725CST 1750CST			0	0	0	0	Funnels Hail (0.75)
		The Midland Weather Service sighted a funnel cloud one mile south of Midland Air Terminal. Another funnel, which lasted eight minutes, was spotted at 1732 CST. The public reported 0.75-inch hail 15 miles northeast of Midland on Interstate 20 at 1750 CST.							
Garza County	19	1835CST			0	0	0	0	Funnel
		The Lynn County and Garza County Sheriffs' Offices reported a funnel cloud in western Garza County.							
Garza and Kent Counties	19	1945CST			0	0	0	0	Hail (1.75)
		A Garza County Sheriff's Deputy encountered golfball-sized hail at the Garza-Kent County Line on U.S. Highway 380. The hail fell between 1945 and 1950 CST but inflicted no damage in the open ranchland.							
Ector County	19	2200CST			0	0	0	0	Hail (1.00)
		The public reported hail the size of quarters on the south side of Odessa, along Interstate 20. No damage was noted.							
Midland County	19	2201CST 2210CST Est 2210 CST 2215CST			0	0	?	0	Hail (1.50) Hail (2.50) TSTM Wind (Est 50) Flash Flooding
		The storm that deposited one-inch hail in Ector County moved into Midland County and brought widespread damage due to large hail and flash flooding.							
		Large hail was widespread across the City of Midland. At 2201 CST, hail 1.50 inches in diameter fell in downtown Midland. There were numerous reports of hail between the size of golfballs and tennis balls that fell during the period 2201-2230 CST near the intersection of Wadley and "A" Streets. The hail accumulated to a depth of one foot and inflicted severe damage to houses, trees, and automobiles. According to the Police Department and insurance investigators, at least 1,000 houses in the city received significant damage to roofs and windows. Trees and shrubs were stripped of leaves and small limbs. Additionally, automobiles sustained substantial losses in the form of broken windows and hail dents.							
		Rainfall associated with the thunderstorm totaled as much as 1.75 inches within an hour and combined with hail to cause widespread flooding of low water crossings and major thoroughfares for the next 12 hours. Thunderstorm winds estimated at 50 knots destroyed a cinder-block wall on North Avenue W.							
Sterling County	20	1231CST			0	0	0	0	Funnels
		The public reported two funnel clouds along State Highway 158 two miles west of Sterling City. The Department of Public Safety continued to monitor the funnels visually for the next 15 minutes.							
Sutton County	20	1417CST			0	0	0	0	Flash Flooding
		Heavy rains caused creek rises that forced closure of State Highway 1691.							
Tom Green County	20	1431CST			0	0	0	0	Hail (0.75)
		Dime-sized hail was reported by the Sheriff's Office at Grape Creek, in the northwest part of the county. No damage was noted.							
Gaines County	20	1530CST			0	0	0	0	Hail (1.00)
		Hail one inch in diameter was reported by Sheriff's Deputies two miles west of Seagraves.							
Yoakum County	20	1530CST			0	0	0	0	Hail (0.75)
		Hail 0.75 inch in diameter was encountered by Skywarn Spotters eight miles west of Denver City.							
Midland County	20	1700CST 1710CST			0	0	0	0	TSTM Wind (70) TSTM Wind (61)
		A Police Officer reported 70-knot winds along Loop 250 five miles northwest of the City of Midland. Ten minutes later, at 1710 CST, and off-duty Weather Service Observer encountered a microburst estimated at 61 knots in north Midland.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
TEXAS, Western									
Howard County	20	1714CST 1734CST 1739CST	2.0	60	0	0	0	0	Tornado (F0) Funnels Funnel
<p>Skywarn Spotters sighted a tornado three miles east of Highway 350 on the Wallace Ranch near Interstate 20. The tornado lasted four minutes. The public reported several sightings of funnels during the next 20 minutes from Big Spring east-northeast to Coahoma. A Skywarn Spotter sighted another funnel at 1739 CST over Forsan, in the the southern part of the county.</p>									
Midland County	25	2039CST			0	0	0	0	Hail (1.00)
<p>Hail the size of quarters was reported by the Sheriff's Office on State Highway 349, 10 miles south of Midland.</p>									
Moore County	27	1835CST			0	0	0	0	Hail (1.75)
<p>The Sheriff reported golfball-sized hail at Masterson. No damage was noted.</p>									
Swisher County	27	2037CST			0	0	0	0	Funnels
<p>Skywarn Storm Spotters reported several funnel clouds five miles west of the Community of Kress along Interstate 27, in the southern part of the county.</p>									
Moore County	28	1749CST			0	0	0	0	Hail (1.75)
<p>The Sheriff's Department reported golfball-sized hail two miles east of Dumas.</p>									
Oldham County	28	1812CST			0	0	?	0	Hail (1.75)
<p>The Police Dispatcher reported golfball-sized hail at Vega. Damage was undetermined.</p>									
Hale County	28	2040CST	4.0	90	0	0	3	0	Tornado (F0)
<p>A brief tornado overturned a trailer at Edmonson in the northern part of the county, according to the Sheriff's Department.</p>									
Hale County	29	Est 1300 CST			0	0	0	0	Hail (1.75)
<p>Marble- to golfball-sized hail fell at Abernathy, in the extreme southern part of the county. The hail fell without inflicting any significant damage.</p>									
Bailey and Lamb Counties	30	1750CST 1750CST 1840CST 1845CST 1850CST 1900CST 1900CST	4.0 2.0	60 50	0 0 0 0 0 0	0 0 0 0 5 0	0 4 0 0 5 4 5	0 0 0 0 0 0 0	Tornado (F0) Hail (2.75) Tornado (F0) Hail (1.75) Hail (2.75) Hail (2.75) Flash Flooding
<p>A supercell brought two tornadoes and numerous reports of very large hail across eastern Bailey and western Lamb Counties. At 1750 CST a Storm Chaser reported a tornado 10 miles southwest of Enochs, at the southern edge of Bailey County. About the same time, the Three Way School two miles north of Maple and about four miles north of the tornado received severe roof and window damage due to baseball-sized hail. The storm moved slowly north northeast, and at 1840 CST Sheriff's Deputies sighted a second tornado three miles east of Needmore. Five minutes later, hail the size of golfballs was encountered by the Sudan Fire Department, 10 miles southwest of that community and just inside the Lamb County Line. Hail as large as baseballs was observed from five miles west of Sudan to Friendship in Lamb County at 1850 CST. Tree, roof, automobile, and crop damage was widespread from west of Sudan through the Friendship area. Baseball-sized hail was also noted 10 miles south of Muleshoe, in Bailey County, at 1900 CST.</p>									
<p>In addition to damage caused by hail, flash flooding resulted from the four- to five-inch rains that occurred during the storm's hour-long stay. Many fields remained flooded for several days thereafter, causing the loss of young cotton and sorghum plants in the area. Further, rapid flow of rainwater and hail severely eroded some cropland, thereby inflicting the most severe damage.</p>									
Dallam County	30	1835CST	3.0	100	0	0	0	0	Tornado (F0) Hail
<p>A Storm Chaser observed and photographed a tornado in western Dallam County near the Community of Perico. The twister was in open ranchland and inflicted no damage. About the same time, large hail of undetermined size damaged automobiles on Highway 87 east of Texline.</p>									
TEXAS, Western									
Deaf Smith County	30	2055CST 2047CST	2.0	70	0	0	0	0	Tornado (F0) Funnels
<p>The supercell that moved across Bailey and Lamb Counties affected Deaf Smith County, where a Deputy Sheriff spotted a tornado 10 miles east of Friona. The twister was in open country and inflicted no damage. Numerous funnels were also sighted a few minutes earlier west of Hereford and one mile south of the Community of Westway.</p>									
Hartley County	30	2050CST			0	0	4	0	TSTM Wind (60)
<p>Thunderstorm winds unroofed a farm house in the southeast part of the county, near the Community of Channing.</p>									
Northwestern Panhandle	30- 31	2124CST- 1015CST							Flash Flooding
<p>A line of very strong thunderstorms rolled slowly across much of the northwest Panhandle, bringing heavy rainfall that resulted in widespread flash flooding. The following is a county-by-county breakdown of the results of that flooding:</p>									
Farmer County	31	0620CST			0	0	4	5	Flash Flooding
<p>Rains of between three and four inches resulted in flash flooding that put roads in the Friona area underwater for several hours. Adjacent crops were heavily damaged due to standing water and erosion, and erosion of pavement along Highway 214 north of Friona and U. S. Highway 60 northeast of Friona was significant.</p>									
Moore County	31	0640CST			0	0	4	0	Flash Flooding
<p>Rains of between 4.25 and 5.00 inches in the Dumas area caused flooding that left Highway 152 east of Dumas under two feet of water in several places. In Dumas, flash flooding sent water over curbs and into buildings.</p>									
Carson and Hutchinson Counties	31	0710CST			0	0	4	0	Flash Flooding Lightning
<p>Thunderstorm rains caused flash flooding throughout the two-county area. Rains of between two and three inches flooded low-lying areas and made county roads briefly impassable, while lightning that struck transformers left parts of Panhandle (in Carson County), Borger (in Hutchinson County), and Stinnett (in Hutchinson County) without power for several hours.</p>									
Deaf Smith County	31	0715CST			0	0	3	5	Flash Flooding
<p>Rains of between 3 and 4.5 inches left five feet of water over Farm-To-Market Road 1412 west of Hereford. Normally dry streambeds carried water across the roadway. The flooding also destroyed large amounts of young crops.</p>									
Potter and Randall Counties	31	0800CST			0	0	4	?	Flash Flooding
<p>Rains totaling between three and four inches in the Amarillo area left streets and underpasses flooded. Interstate 40 in western Amarillo was closed due to the flooding, as several underpasses were under up to eight feet of water. A total of eight traffic accidents and 35 stalled vehicles were attributed to the flooding.</p>									
Ector County	31	0521CST			0	0	4	0	TSTM Wind
<p>Thunderstorm winds downed power poles northwest of Odessa, two miles south of the Community of Goldsmith.</p>									
Childress County	31	1218CST			0	0	0	0	Funnel
<p>A Storm Chaser reported a funnel cloud estimated to be 20 miles north of Childress, north of the intersection of U. S. Highways 83 and 62, in the extreme northern part of the county. The funnel was more than halfway to the ground but never generated a dust whirl.</p>									
42 UTAH									
UT2006	01	0200MST			0	0	1	0	Heavy Snow
UT2003	01	0700MST			0	0	1	0	Heavy Snow
UT2010	01	1600MST			0	0	1	0	Heavy Snow
<p>Southwest Valleys Wasatch Front and Northern Mountains</p>									
<p>A late spring snow storm was apparently helped along by lake-effect from the Great Salt Lake and produced heavy snow over much of the western half of the state. A few of the storm total snowfall accumulations included 14 inches at Tooele, 11 inches in the Kanosh area, 6 inches in Fillmore, 2 to 5 inches in the Salt Lake Valley, 21 inches at Alta, and 20 inches at Snowbird.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
UTAH									
UTZ004 Uinta Basin	05	1500MST			0	0	1	0	High Wind (G55)
			Prefrontal winds gusted to 63 mph at the Myton station.						
UTZ003 Wasatch Front	06	0400MST			0	0	4	0	High Wind (G54)
UTZ003 Wasatch Front	06	0415MST			0	0	1	0	High Wind (G57)
			Prefrontal winds gusted to 65 mph at Tooele and 62 mph on the Southern Pacific causeway. Wave damage to the causeway was estimated at near \$100,000.						
UTZ003 Wasatch Front and Uinta Basin	13	1400MST			0	0	1	0	High Wind (G56)
UTZ004 Wasatch Front and Uinta Basin	13	1650MST			0	0	1	0	High Wind (G60)
			A blustery cold front produced wind gusts to 64 mph and 69 mph at West Valley City and Myton respectively.						
UTZ007 Sevier Valley	16	1815MST			0	0	1	0	High Wind (G52)
			A wind gust to 60 mph was recorded at Richfield.						
Utah County Lindon	22	1600MST			0	0	4	0	Flash Flood
			A bank gave way on the Murdock Canal near Lindon Utah, spilling mud and water into the town, down main street and into forty homes. No one was injured.						
Carbon County Price	26	1800MST			0	0	3	0	Thunderstorm Wind (52)
			A thunderstorm downburst wind knocked out a window to a business and tore down a large sign.						
UTZ006 Utah County	29	0939MST			0	0	1	0	High Wind (G52)
UTZ011 Lapoint	29	1735MST			0	0	1	0	Heavy Snow
UTZ008 Lapoint	29	1746MST	short	10-20	0	0	3	0	Tornado (F0)
UTZ008 Lapoint	29	1900MST			0	0	4	0	High Wind
			A windy spring cold front brought a variety of weather to the state during the Memorial weekend. Strong winds, snow and even a tornado accompanied the front as it swept through the state during the evening of the 29th. Early in the day a wind gust to 60 mph was recorded at the Milford weather station. An 8 inch snow accumulation was reported by a spotter at Duck Creek, east of Cedar City. Sustained high winds in the Lake Powell area produced high waves that sunk at least three large houseboats, sunk four smaller boats and swamped or beached 65 more. Damage estimates were near the half million dollar mark. A tornado was reported to have touched down and damaged a roof, a chimney and a utility pole in Lapoint. Total damage was estimated at \$3000.						
43 VERMONT ————— NONE REPORTED									
44 VIRGINIA									
Shenandoah Co	16	1400EST			0	0	?	?	Hail (0.75)
Rappahannock Co	16	1436EST			0	0	3	?	Thunderstorm Wind
Orange Co	16	1500EST			0	0	3	?	Thunderstorm Wind (52kt)
Culpeper Co	16	1443EST			0	0	3	?	Thunderstorm Wind
Henry Co, Ridgeway	16	1605EST			0	0	?	?	Hail (0.75)
Patrick Co	16	1605EST			0	0	?	?	Hail (0.75)
Franklin Co, Penhook	16	1530EST			0	0	?	3	Hail (0.75)
Stafford Co	16	1615EST			0	0	?	?	Hail (1.00)
Fairfax Co	16	1700EST			0	0	?	?	Hail (1.75)
			Dime size hail and strong winds were reported in Ridgeway. Tobacco damage occurred in Penhook due to hail. Power lines were downed by high winds in Culpeper. In Rappahannock County, high winds knocked down power lines and trees. Numerous downed trees and mothball size hail were reported in Orange County. Lightning hit and set afire several homes in Spotsylvania County.						
VIRGINIA									
Patrick Co	17	1335EST			0	0	0	0	Hail (0.75)
Roanoke Co	17	1337EST			0	0	0	0	Hail (0.50)
			Dime size hail occurred in the north part of Patrick County. No significant damage reported in either county.						
VAZ005 Extreme Northern VA	17	1700EST			0	0	?	?	Flash Flood
			In Loudoun County, a man had to be rescued from his car when he attempted to cross a road that was under water.						
VAZ005 Extreme Northern VA	18	1700EST			0	0	?	?	Flash Flood
			In Loudoun County, a second man had to be rescued from his car when he attempted to cross a road that was under water.						
Chesterfield Co	20	1755EST			0	0	?	?	Hail (0.75)
Hanover Co	21	1600EST			0	0	3	?	Thunderstorm Wind
					0	0	3	3	Hail (1.50)
			Fifty to 100 trees were downed by a thunderstorm. One to 1 1/2 inch hail was reported, covering the ground in some areas. The storm was reported to have strong winds, extremely heavy rain, and heavy lightning.						
Henrico Co	21	1741EST			0	0	4	?	Hail (1.00)
					0	0	?	?	Thunderstorm Wind (62kt)
Hanover Co	21	1744EST			0	0	6	5	Hail
Hanover Co, Mechanicsville	21	1744EST			0	0	5	0	Thunderstorm Wind (60kt)
Henrico Co	21	1747EST			0	0	3	2	Hail (1.50)
			Trees were uprooted, power lines downed, and construction trailers blown over in Henrico County. In Mechanicsville, heavy rain accompanied the storm, dropping 2.5 inches in 35 minutes in Mechanicsville, with some flooding. Hail accumulated 3 inches or more. Property damage from the hail was estimated at \$500,000 and agricultural losses, \$200,000.						
Fauquier Co	23	1500EST			0	0	?	?	Hail (1.75)
Loudoun Co	23	1605EST			0	0	?	?	Hail (0.75)
Loudoun Co	23	1615EST			0	0	3	?	Thunderstorm Wind
Pittsylvania Co, Danville	23	2115EST			0	0	2	0	Thunderstorm Wind
Halifax Co	23	2130EST			0	0	3	3	Thunderstorm Wind
Halifax Co, Volens	23	2200EST			0	0	2	0	Thunderstorm Wind (52kt)
			Strong thunderstorm winds knocked down large limbs and power lines in Loudoun County. A thunderstorm downed numerous trees and power lines 10 miles east of Danville, and throughout Halifax County. A large garage in South Boston was thrown 100 feet and destroyed. Wind gusts to 52 knots were reported at Volens.						
VAZ005 Extreme Northern VA	23	1700EST			0	0	3	0	Flash Flood
	23	1700EST			0	0	?	?	Flash Flood
			Heavy rainfall washed out a bridge and several roads in Loudoun County. Small streams flooded and roads were under water in Fauquier County.						
Albemarle Co	23	2315EST			0	0	3	0	Thunderstorm Wind (52kt)
			A thunderstorm downed numerous trees and some power lines.						

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					KILLED	INJURED	PROPERTY	CROPS	
45 WASHINGTON									
Eastern Washington	12	2130 PST			0	0	5	0	Thunderstorm Wind
			Record-breaking temperatures were recorded across Eastern Washington during the afternoon while a Pacific cold front worked its way across Western Washington. As the front crossed over the Cascades in the evening a broken line of thunderstorms developed from 60 miles north of Wenatchee to just south of Yakima. After sunset the line of thunderstorms traveled eastward, crossing the Washington-Idaho border around midnight. Lightning strikes to power lines caused numerous power outages across Eastern Washington. Wind speeds up to 60 mph were recorded at several locations. Peak wind speeds included 69 mph at Ellensburg, 61 mph at the Yakima Airport, and 60 mph at Warden, in eastern Grant County. An unofficial gust to 75 mph was reported near Walla Walla. Wind damage included fallen trees in several towns and a 60' by 100' barn roof that was destroyed in Moxee, near Yakima.						
46 WEST VIRGINIA									
Mason County	11	1900EST			0	0	0	0	Hail (0.75)
Jackson County	11	1910EST			0	0	0	0	Hail (0.50) TSTM Wind
			Two trees were downed.						
Wirt County	11	1930EST			0	0	?	0	Hail (?) TSTM Wind
			Damaging hail and wind were reported from Wirt County.						
Roane County	11	1940EST			0	0	0	0	Hail (?) TSTM Wind
			Strong winds accompanied a six inch hail fall. Snow plows were needed to reopen Rt. 119 and other local roads. Walkways and driveways needed shoveling.						
Berkeley and Jefferson Counties	16	1400-1430EST			0	0	1	0	Hail (1.75)
Kanawha and Roane Counties	23	1340EST			0	0	0	0	Hail (1.00)
Kanawha County	23	1415-1430EST			0	0	?	0	Hail (1.75) TSTM Wind
			Tree branches 6 to 8 inches in diameter were downed. A pickup truck was damaged by hail. Thunderstorm winds in excess of 100 mph blew the roof off of a house, uprooted a tree, and snapped several trees in half. A shed was overturned and power lines were downed.						
Roane County	23	1500EST			0	0	0	0	Hail (1.00)
Braxton County	23	1515EST			0	0	0	0	Hail (1.00)
Brooke and Ohio Counties	24	2000EST			0	0	0	0	TSTM Wind
			Trees and power lines were downed.						
Hancock County	24	2020-2100EST			0	0	0	0	TSTM Wind
			A tree and power line were downed.						
47 WISCONSIN									
Monroe Co., 1NE Cashton to 1E Fort McCoy to SW Warrens	08	1430-1512CST	27	800	0	0	5	0	Tornado (F2)
SW Warrens	08	1510CST			0	0	?	0	Hail (1.00)
Grant Co., Cassville	08	1443CST			0	0	?	0	Thunderstorm Wind
3SW Beetown	08	1449CST			0	0	0	0	Funnel Cloud
1NE Beetown	08	1452CST	1.5	30	0	0	0	0	Tornado (F1)
Lacrosse Co., Lacrosse	08	1445CST			0	0	?	0	Hail (0.75)
— WISCONSIN									
Grant Co., 3NW Dickeyville	08	1447CST			0	0	2	0	Thunderstorm Wind
Cornelia	08	1453CST			0	0	2	0	Thunderstorm Wind
Platteville	08	1459CST			0	0	2	0	Thunderstorm Wind
Grant Co., Potosi	08	1447CST			0	0	5	0	Thunderstorm Wind (61)
Potosi	08	1447CST			0	0	?	0	Hail (1.75)
Rockville	08	1448CST	0.5	25	0	0	4	0	Tornado (F1)
2SSE Union	08	1500CST	0.5	35	0	0	2	0	Tornado (F1)
Vernon Co., Westby	08	1446CST			0	0	3	0	Thunderstorm Wind
Westby	08	1450CST			0	0	?	0	Hail (0.75)
Grant Co., 1SE Bloomington	08	1450CST			0	0	?	0	Thunderstorm Wind
2NE Bloomington	08	1452CST			0	0	0	0	Funnel Cloud
6SW Mount Ida to 4NE Mount Ida	08	1454-1506CST	10	40	0	0	?	0	Tornado (F1)
Grant Co., 1NE Mount Hope to 2NW Fennimore	08	1455-1507CST	10	40	0	0	5	0	Tornado (F2)
5S Boscobel	08	1508CST			0	0	3	0	Thunderstorm Wind
Clark Co., Thorp	08	1455CST			0	0	?	0	Hail (1.75)
Grant Co., 1E Hurricane	08	1456CST			0	0	0	0	Funnel Cloud
1SE Lancaster	08	1502CST			0	0	0	0	Funnel Cloud
4E Lancaster	08	1505CST			0	0	4	0	Thunderstorm Wind
Lafayette Co., 2NW Belmont	08	1458CST			0	0	3	0	Thunderstorm Wind
Lafayette Co. to Green Co., 1N Shullsburg to 1SE Darlington to 1NE Lemont	08	1500-1520CST	16	125	0	0	5	0	Tornado (F3)
3NW Argyle	08	1530CST			0	0	3	0	Thunderstorm Wind
2W Postville	08	1542CST			0	0	3	0	Thunderstorm Wind
New Glarus	08	1557CST			0	0	3	0	Thunderstorm Wind
Lafayette Co., 1S Elk Grove	08	1502CST			0	0	2	0	Thunderstorm Wind
Grant Co., 1N Lancaster	08	1504CST			0	0	3	0	Thunderstorm Wind
2ENE Stitzer to 2NW Montfort	08	1515-1525CST	7.5	200	0	0	5	0	Tornado (F2)
Lafayette Co. to Green Co., 2NE Dubarton to 3W Gratiot to Wiota	08	1510-1520CST	9	100	0	0	5	0	Tornado (F1)
2N Jordan Center	08	1540CST			0	0	3	0	Thunderstorm Wind
Grant Co., 2NE Boscobel	08	1515CST	1.2	30	0	0	?	0	Tornado (F1)
Blue River	08	1521CST			0	0	2	0	Thunderstorm Wind
1S Musoda	08	1528CST			0	0	2	0	Thunderstorm Wind
Grant Co., 1E Castle Rock	08	1519CST			0	0	3	0	Thunderstorm Wind
Jackson Co., Millston	08	1545CST			0	0	?	0	Hail (0.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS	
— WISCONSIN										— WISCONSIN									
Richland Co. to Sauk Co., ½E Boaz	08	1525CST			0	0	3	0	Thunderstorm Wind	Sauk Co., 2SE Baraboo	08	1613CST			0	0	4	0	Thunderstorm Wind
4SW Richland Center to ½E Buck Creek to 1W Cazenovia	08	1530-1555CST	20	150	0	0	5	0	Tornado (F2)	Juneau Co., 3S Lemorweir	08	1615CST	0.7	25	0	0	3	0	Tornado (F1)
Lavalle	08	1600CST			0	0	3	0	Thunderstorm Wind (61)	Sauk Co. to Columbia Co., 5NE Baraboo	08	1618CST			0	0	3	0	Thunderstorm Wind
Lafayette Co. to Iowa Co. to Dane Co., Fayette	08	1528CST			0	0	3	0	Thunderstorm Wind	5NW Portage	08	1633CST			0	0	3	0	Thunderstorm Wind
½E Hollandale	08	1540CST			0	0	3	0	Thunderstorm Wind	Rock Co., Orfordville	08	1625CST			0	0	3	0	Thunderstorm Wind
1½ENE Hollandale	08	1545CST	0.8	20	0	0	3	0	Tornado (F1)	Footville	08	1635CST			0	1	4	4	Thunderstorm Wind
Daleyville	08	1555CST			0	0	3	0	Thunderstorm Wind (61)	Rock Co. to Dane Co. to Jefferson Co. 2½NW Union to 3E Brooklyn to 1SE Stoughton to Utica to Cambridge to 2½S Lake Mills	08	1630-1715CST	27	175	0	0	5	0	Tornado (F2)
4WSW Mount Vernon	08	1605CST			0	0	3	0	Thunderstorm Wind	A tornado touched down 2½SW of Union in Rock county. It entered Dane county 3E of Brooklyn and skipped near Stoughton and Utica and then entered Jefferson county at Cambridge.									
Iowa Co., Avoca	08	1530CST			0	0	3	0	Thunderstorm Wind	Columbia Co. to Green Lake Co., 1SE Portage	08	1630CST			0	0	3	0	Thunderstorm Wind
Taylor Co., ½E Madford	08	1535CST			0	0	3	0	Thunderstorm Wind	Marcellon	08	1645CST			0	0	3	0	Thunderstorm Wind
Sauk Co., Spring Green	08	1545CST			0	0	?	0	Thunderstorm Wind	Dalton	08	1650CST			0	0	3	0	Thunderstorm Wind
7WNW Plain	08	1545CST			0	0	4	0	Thunderstorm Wind	Wood Co., 1W Nekoosa	08	1630CST			0	0	3	0	Thunderstorm Wind (52)
1S Loganville	08	1600CST			0	0	4	0	Thunderstorm Wind	Marshfield	08	1634CST			0	0	?	0	Hail (1.75)
2N Lime Ridge	08	1557CST			0	0	3	0	Thunderstorm Wind	Dane Co. to Jefferson Co., 1NW Sunnyside	08	1633CST			0	0	3	0	Thunderstorm Wind
Reedsburg	08	1605CST			0	0	4	0	Thunderstorm Wind	Waterloo	08	1650CST			0	0	4	0	Thunderstorm Wind
Dane Co., 1E Mount Horeb	08	1545CST			0	1	3	0	Thunderstorm Wind	Portland	08	1650CST			0	0	5	0	Thunderstorm Wind
Middleton	08	1557CST			0	0	3	0	Thunderstorm Wind	Adams Co., 10SE Monroe Center	08	1637CST			0	0	4	0	Thunderstorm Wind
Madison	08	1610CST			0	0	3	0	Thunderstorm Wind (55)	Dane Co. 1W McFarland	08	1637CST			0	0	3	0	Thunderstorm Wind
Dane Co. to Sauk Co. to Columbia Co., 4½W Black Earth	08	1548CST			0	0	2	0	Thunderstorm Wind	Cottage Grove	08	1643CST			0	0	3	0	Thunderstorm Wind
Mazomanie	08	1554CST			0	0	3	0	Thunderstorm Wind	Marshall	08	1650CST			0	0	3	0	Thunderstorm Wind
Merrinac	08	1603CST			0	0	3	0	Thunderstorm Wind	Marquette Co., 1S Oxford	08	1640CST	1.1	40	0	0	3	0	Tornado (F1)
Dekorra	08	1618CST			0	0	3	0	Thunderstorm Wind	1S Westfield	08	1652CST			0	0	3	0	Thunderstorm Wind
Dane Co. to Columbia Co., 4S Black Earth	08	1548CST			0	0	3	0	Thunderstorm Wind	Rock Co., 8S Janesville	08	1642CST			0	0	3	0	Thunderstorm Wind
1S Markville to 3W Dane	08	1556-1608CST	7	100	0	1	4	0	Tornado (F2)	Columbia Co., Friesland	08	1650CST			0	0	3	0	Thunderstorm Wind
1W Dane	08	1615CST			0	0	3	0	Thunderstorm Wind	Marquette Co., Montello	08	1650CST			0	0	3	0	Thunderstorm Wind
Lodi	08	1615CST	2	75	0	0	5	0	Tornado (F1)	Jefferson Co., Fort Atkinson	08	1655CST			0	0	3	0	Thunderstorm Wind
1S Poynette	08	1625CST			0	0	4	0	Thunderstorm Wind (53)	Marquette Co. to Waushara Co., 2W Neshkoro	08	1655CST			0	0	3	0	Thunderstorm Wind
0.3S Rio to 4ENE Rio	08	1640-1647CST	5	75	0	0	3	0	Tornado (F1)	Spring Lake	08	1706CST			0	0	2	0	Thunderstorm Wind
Dane Co., 1N Pine Bluff	08	1550CST			0	0	3	0	Thunderstorm Wind	2N Redgranite	08	1710CST			0	0	2	0	Thunderstorm Wind
Waunakee	08	1610CST			0	0	3	0	Thunderstorm Wind	Pine River	08	1715CST			0	0	2	0	Thunderstorm Wind
Windsor	08	1622CST			0	0	3	0	Thunderstorm Wind										
Clark Co., Greenwood	08	1604CST			0	0	?	0	Hail (1.75)										
Juneau Co. to Adams Co., 3E Elroy to 2W Mauston	08	1608-1615CST	5	75	0	1	3	0	Tornado (F1)										
2W Mauston	08	1615CST			0	0	?	0	Hail (1.75)										
Adams Friendship	08	1635CST			0	0	3	0	Thunderstorm Wind										
Green Co., 1S Monroe	08	1610CST			0	0	5	0	Thunderstorm Wind										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	
WISCONSIN									
Waushara Co., Hancock	08	1655CST			0	0	4	0	Thunderstorm Wind
Richfield	08	1655CST			0	0	3	0	Thunderstorm Wind
Dakota	08	1657CST			0	0	3	0	Thunderstorm Wind
Wautoma	08	1705CST			0	0	2	0	Hail (0.75)
2SE Wautoma to 1S Mount Morris	08	1706-1712CST	5	100	0	0	5	0	Tornado (F1)
3NE Wild Rose	08	1715CST			0	0	3	0	Thunderstorm Wind
2S Poy Sippi	08	1717CST			0	0	3	0	Thunderstorm Wind
1S Borth	08	1720CST			0	0	3	0	Thunderstorm Wind
Dodge Co., 1N Watertown	08	1655CST			0	0	4	0	Thunderstorm Wind (53)
Beaver Dam	08	1700CST			0	0	3	0	Thunderstorm Wind
Juneau	08	1710CST			0	0	2	0	Thunderstorm Wind (53)
3N Burnett Horicon	08	1715CST	0.5	50	0	0	3	0	Tornado (F0)
	08	1715CST			0	0	3	0	Thunderstorm Wind (53)
Mayville	08	1720CST			0	0	3	0	Thunderstorm Wind
Portage Co., 2SW Junction City	08	1700CST			0	0	4	0	Thunderstorm Wind
Bancroft	08	1705CST			0	0	3	0	Thunderstorm Wind
Stevens Point	08	1710CST			0	0	4	0	Thunderstorm Wind
3W Keene 1SE Flower	08	1712CST	1	25	0	0	3	0	Tornado (F0)
	08	1715CST			0	0	3	0	Thunderstorm Wind
Jefferson Co., Jefferson	08	1700CST			0	0	3	0	Thunderstorm Wind
Green Lake Co., 6W Berlin	08	1705CST			0	0	4	0	Thunderstorm Wind (53)
Green Lake	08	1715CST			0	0	3	0	Thunderstorm Wind
Marathon Co., 4½SW Halder to Rib Falls	08	1710-1730CST	13	250	0	2	6	0	Tornado (F2)
Fond du Lac Co., 2E Waupun	08	1720CST			0	0	3	0	Thunderstorm Wind
Byron	08	1730CST			0	0	4	0	Thunderstorm Wind (53)
Fond du Lac	08	1731CST			0	0	7	0	Thunderstorm Wind (53)
Waupaca Co., 7S Waupaca	08	1725CST			0	0	2	0	Thunderstorm Wind
Waupaca	08	1735CST			0	0	4	0	Thunderstorm Wind
Ogdensburg	08	1740CST			0	0	4	0	Thunderstorm Wind
Scandinavia	08	1740CST			0	0	3	0	Thunderstorm Wind
Waukesha Co., North Prairie	08	1740CST			0	0	3	0	Thunderstorm Wind
Hartland Waukesha	08	1752CST	0.1	25	0	0	?	0	Tornado (F0)
	08	1810CST			0	0	?	0	Thunderstorm Wind (55)
Winnebago Co., Waukau	08	1745CST			0	0	2	0	Thunderstorm Wind
2E Winneconne	08	1750CST			0	0	3	0	Thunderstorm Wind (61)
Outagamie Co., Kimberly	08	1750CST			0	0	3	0	Thunderstorm Wind
Langlade Co., Antigo	08	1805CST			0	0	?	0	Hail (0.75)
Washington Co., 1S Addison	08	1810CST			0	0	3	0	Thunderstorm Wind
WISCONSIN									
Milwaukee Co., 10NW Milwaukee	08	1835CST			0	0	3	0	Thunderstorm Wind
Sheboygan Co., Sheboygan Falls	08	1845CST			0	0	4	0	Thunderstorm Wind
<p>A widespread outbreak of tornadoes and severe thunderstorms took place mainly over southern and central Wisconsin during the afternoon and evening hours. Severe weather took place in 34 of Wisconsin's counties with a total of 24 tornadoes and numerous severe thunderstorms causing over \$4.5 million in damage. Some of the hardest hit counties were: Marathon (\$1.2 million), Columbia (\$760,000), Dane (\$650,000), Grant (\$500,000), Green (\$400,000), Lafayette (\$250,000), Monroe (\$250,000), and Dodge (\$130,000).</p> <p>While many of the tornadoes were weak, seven had tracks at least 10 miles long and occurred with longer damage paths of severe thunderstorms. The line of storms also generated huge clouds of dust from freshly plowed fields which considerably reduced visibilities. One person was injured at Riley (Dane county) from flying debris from a severe thunderstorm's winds. Another severe thunderstorm caused a barn to collapse on a farmer near Footville (Rock county) injuring him.</p> <p>A 27 mile long tornado skipped along a path nearly northward through rural areas of Monroe county. Damage occurred on several farms where sheds and barns were destroyed along with numerous trees.</p> <p>Grant county was visited by seven tornadoes. Small tornadoes damaged some farm buildings and trees NE of Beetown, 2SE of Union, Rockville and 2NE of Boscobel. A tornado path of over 7 miles from 23NE of Sittser to 2NW of Montfort damaged mainly trees along with a few farm buildings. A tornado with a 10 mile long path from 6SW of Mount Ida to 4NE of Mount Ida damaged 2 homes, destroyed farm buildings and uprooted many trees. Another tornado with a 10 mile long track occurred from 1NE of Mount Hope to 2W of Fenimore and damaged 4 homes, downed 2 barns and several farm buildings along with many trees.</p> <p>A 16 mile long tornado path tore through Lafayette county from 1N of Shullsburg to 1SE of Darlington to 1NE of Lamont. Two homes were damaged as well as 7 farm buildings and a large number of trees. Also in the county a 9 mile long tornado track started 2NE of Dunbarton went to 3½W of Gratiot to Wilota. Two homes were damaged, 5 farm buildings and numerous trees downed.</p> <p>Richland county had a tornado with a 20 mile long path start 4SW of Richland Center and skip to ½E of Buck Creek before lifting 1W of Cazenovia. Numerous barns, farm sheds and trees were damaged in addition to 2 homes.</p> <p>In Iowa county a small tornado leveled a barn 1½NE of Hollandale.</p> <p>A 7 mile long tornado path began with a touchdown in Dane county 1S of Marxville and ended 3W of Dane. A person was injured at Marxville from flying debris as damage included barns and sheds.</p> <p>In Columbia county a tornado skipped through the Lodi area before lifting. Another tornado set down for a brief time in the Rio area. In all 7 barns and 1 house were destroyed, 3 homes damaged and a trailer moved off its foundation.</p> <p>In Juneau county a small tornado damaged a building 3S of Lemonier. A second tornado started 3E of Elroy and proceeded to 2W of Mauston. A person was injured by flying debris 2W of Mauston and damage included 2 barns, 2 homes, 1 trailer and many trees.</p> <p>A 27 mile long tornado path covered the counties of Rock, Dane and Jefferson. The track began 2½SW of Union and continued to near the towns of Stoughton, Utica, and Cambridge before ending 2½S of Lake Mills. Destruction took place at 5 barns and many other farm buildings. In addition 2 homes were damaged as well as countless trees.</p> <p>A small tornado formed 1S of Oxford in Marquette county damaging 2 buildings and many trees.</p> <p>In Waushara county a tornado traveled from 1S of Mount Morris to 3NE of Wild Rose causing damage to structures and trees along Silver Lake.</p> <p>A small tornado briefly touched the ground in an open area 3N of Burnett in Dodge county.</p> <p>Another tornado dipped into a rural area of Portage county 3W of Keene.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

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					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

WISCONSIN

The most destructive tornado occurred in Marathon county as it caused over 1 million dollars in damage along its 13 mile path from 4 1/2 SSW of Hadler to Rib Falls. Two people were injured in the town of Emmet when their mobile home trailer was rolled upside down. In all 3 mobile homes, 6 large barns, 3 machine sheds, 2 silos were destroyed and numerous buildings damaged. 39 acres of ginseng racks on 16 farms were knocked off their posts causing \$450,000 in damage.

A small tornado set down in an open field near Hartland in Waukesha county.

Washburn Co.,
4NW Trego 12 1813CST 0 0 3 0 Thunderstorm Wind

Vilas Co.,
Lac du Flambeau 12 1815CST 0 0 4 0 Thunderstorm Wind

A pair of severe thunderstorms blew down a shed near Trego and caused large trees to fall and considerably damage a home near Lac du Flambeau.

Chippewa Co.,
Cornell 28 1500CST 0 0 3 0 Hail (1.75)
Golfball size hail damaged some fire trucks fighting a fire at Cornell.

48 WYOMING

WY2001
NORTHWEST MOUNTAINS 01 0000 TO 1000 MST 0 0 0 0 HEAVY SNOW

WY011-013-014-017
CENTRAL AND SOUTHERN WY 01 1200 TO 02 1100 MST 0 0 0 0 SNOW

WY2015-016
SOUTH-CENTRAL WY 01 1200 TO 02 1100 MST 0 0 0 0 HEAVY SNOW

A DEVELOPING LOW PRESSURE AREA OVER THE SOUTHERN ROCKIES SPREAD HEAVY WET SNOW INTO NORTHWEST WYOMING ON THE MORNING OF THE 1ST. BY 0900 MST ON THE 1ST, 6 TO 8 INCHES OF NEW SNOW WAS REPORTED AT OLD FAITHFUL IN YELLOWSTONE NATIONAL PARK. ADDITIONALLY, THE EAST ENTRANCE OF THE PARK HAD UP TO 8 INCHES OF SNOW AND THE SOUTH ENTRANCE HAD TO BE CLOSED. THERE WERE ALSO NUMEROUS POWER OUTAGES DUE TO THE WET SNOW AT BOTH GRAND TETON PARK AND THE CITY OF JACKSON. THOSE LOCATIONS HAD RECEIVED AT LEAST 5 INCHES OF WET SNOW. DURING THE AFTERNOON OF THE 1ST, AS THE STORM MOVED SLOWLY EAST, MORE SNOW, INCLUDING THUNDERSTORMS WITH SNOW, DEVELOPED OVER SOUTHWEST WY AND SPREAD NORTHEASTWARD. BY 1000 MST ON THE 1ST, 5 TO 7 INCHES OF NEW SNOW WAS REPORTED FROM ROCK SPRINGS TO EVANSTON. THE SNOW CONTINUED TO SPREAD EASTWARD THROUGH SOUTHERN WY THE NIGHT OF THE 1ST INTO THE 2ND. BY 1100 MST ON THE 2ND, JELM, ABOUT 25 MILES SOUTHWEST OF LARAMIE, REPORTED 9 TO 11 INCHES OF NEW SNOW. THE NATRONA COUNTY AIRPORT WEST OF CASPER HAD 4 INCHES, AND 2 INCHES FELL AT CHEYENNE.

CAMPBELL CO
NICKELSON
LITTLE FARMS
8SE GILLETTE 06 1336 TO 1345 MST 0.5 20 0 0 ? ? TORNADO(F1)

CAMPBELL CO
NICKELSON
LITTLE FARMS
8SE GILLETTE 06 1347 TO 1350 MST 1.5 50 0 2 6 ? TORNADO(F2)

CAMPBELL CO
GILLETTE 06 1336 TO 1350 MST 0 0 3 ? THUNDERSTORM WIND(54)

WESTON CO
NEWCASTLE 06 1345 MST 0 0 4 ? THUNDERSTORM WIND(61)

WESTON CO
1NE UPTON 06 1400 TO 1415 MST 2.0 15 0 0 ? ? TORNADO(F0)

WESTON CO
UPTON 06 1445 MST 0 0 5 ? THUNDERSTORM WIND(60)

DURING THE AFTERNOON OF THE 6TH, THE COMBINATION OF A STRONG UPPER-LEVEL LOW AND SURFACE COLD FRONT SPANNED

WYOMING

AN INTENSE LINE OF THUNDERSTORMS. THESE STORMS MOVED RAPIDLY NORTHEASTWARD THROUGH CAMPBELL COUNTY. BETWEEN 1336 TO 1350 MST, TWO TORNADOES TORE THROUGH A MOBILE HOME PARK AT NICKELSON LITTLE FARMS. THE SECOND TORNADO WAS THE MOST DESTRUCTIVE. THIRTEEN TRAILER HOMES WERE DESTROYED LEAVING SEVEN FAMILIES HOMELESS. ALSO, SHEDS, BOATS AND ROOFS WERE DAMAGED, AND THERE WERE OVERTURNED CAMPERS, BROKEN WINDOWS AND DOWNED POWER LINES. DURING THE TIME OF THESE TORNADOES, THE CITY OF GILLETTE WAS EXPERIENCING STRAIGHT-LINE WINDS FROM THUNDERSTORMS GUSTING TO 61 MPH. AT 1345 MST, STRAIGHT-LINE WINDS FROM THE SAME NORTHWEST-TO-SOUTHEAST ORIENTED LINE OF STORMS HIT THE TOWN OF NEWCASTLE. THERE, OFFICE WINDOWS WERE BROKEN, DOORS RIPPED OFF HINGES, POWER LINES DOWNED AND A TREE FELL ON A TRAILER. BY 1400 MST, UPTON FELT THE FURY OF THESE SEVERE THUNDERSTORMS. STRAIGHT LINE WINDS KNOCKED DOWN A HIGH SCHOOL SCOREBOARD, DAMAGED STORAGE BUILDINGS, BLEW DOWN A HANGAR ROOF, DOWNED POWER LINES, AND BROKE TREE LIMBS CAUSING PARTIAL ROAD BLOCKAGES. FROM 1400 TO 1415 MST, A SMALL TORNADO WAS SIGHTED ABOUT 1 MILE NORTHEAST OF UPTON. IT WAS ROPELIKE IN APPEARANCE AND UPROOTED COTTONWOOD TREES. SEVERAL DAYS LATER THE TOWN OF NICKELSON LITTLE FARMS WAS DECLARED A STATE DISASTER AREA.

WY2012-017
SOUTHEAST WY 06 1100 TO 1900 MST 0 0 0 0 HIGH WIND

WY2001-004
NORTHWEST AND BIG HORN MOUNTAINS 06 1400 TO 2300 MST 0 0 0 0 SNOW

THE STORM SYSTEM RESPONSIBLE FOR THE SEVERE WEATHER OVER NORTHEAST WY ALSO CAUSED STRONG WINDS OVER SOUTHEAST WY AND SNOW OVER THE NORTHWEST PART OF THE STATE. VEDAWOOD, BETWEEN LARAMIE AND CHEYENNE, HAD WIND GUSTS TO 82 MPH. DURING THE AFTERNOON AND EVENING OF THE 6TH BURGESS JUNCTION IN THE BIG HORN MOUNTAINS, REPORTED 5 INCHES OF NEW SNOW WITH 3 INCHES FALLING IN YELLOWSTONE NATIONAL PARK. ALSO, DURING THE EARLY AFTERNOON OF THE 6TH THE LARAMIE RIVER POWER STATION JUST NORTHEAST OF WHEATLAND HAD WIND GUSTS OF 62 MPH.

WY2001-004-005-006-008-015
NORTHERN AND WEST-CENTRAL WY SOUTH-CENTRAL MOUNTAINS 06 1100 TO 07 1800 MST 0 0 0 0 HEAVY SNOW

THE STRONG LOW PRESSURE SYSTEM BOTH AT THE SURFACE AND ALOFT MOVED SLOWLY NORTHEASTWARD TO EXTREME SOUTHEAST MONTANA BY THE 7TH. THIS STORM UNLEASHED VERY HEAVY SNOW OVER MOST AREAS WITH ELEVATIONS ABOVE 6000 FEET MSL IN THE NORTH AND WEST SECTIONS OF WY. SINCE THIS STORM HAD BEGUN THE MORNING OF THE 6TH, MORE THAN 20 INCHES OF NEW SNOW HAD FALLEN IN THE BIG HORN MOUNTAINS OF NORTHERN WY, WHILE THERE WAS 6 TO 10 INCHES OF SNOW AT YELLOWSTONE PARK. ADDITIONALLY, MORE THAN 10 INCHES OF NEW SNOW WAS ON THE GROUND NEAR PINEDALE, LOCATED IN WEST-CENTRAL WY, AND THE SNOWY MOUNTAINS TO THE WEST OF LARAMIE. MORE SNOW FELL AT THESE LOCATIONS DURING THE 7TH. BY 1335 MST ON THE 7TH, ARROWHEAD LODGE IN THE BIG HORN MOUNTAINS HAD A TOTAL OF 3 FEET OF NEW SNOW ON THE GROUND.

BEAR LODGE, LOCATED IN THE WYOMING BLACK HILLS, HAD 2 TO 30 INCHES OF SNOW BY THE AFTERNOON OF THE 7TH. NUMEROUS TREES AND POWER LINES WERE DOWNED BY VERY WET SNOW, WITH SEVERAL COMMUNITIES WITHOUT ELECTRICITY THROUGH MUCH OF THE 7TH.

BIG HORN, PARK AND WASHAKIE COUNTIES 07 0500 TO 1400 MST 0 0 6 5 FLASH FLOOD

THE WINTER-LIKE STORM SYSTEM OF THE 6TH AND 7TH PRODUCED HEAVY SNOWFALL ABOVE 6000 FEET MSL AND DRENCHING RAINFALL BELOW. BETWEEN 1.5 AND 5.0 INCHES OF RAIN FELL IN LESS THAN 24 HOURS. THIS DAMAGED THE NEWLY PLANTED CROPS OF BEETS AND BARLEY TO EXTENT THAT SOME WILL HAVE TO BE REPLANTED. ONE ESTIMATE IS THAT 500 ACRES OF BEETS WILL HAVE TO BE REPLANTED. ESTIMATED DAMAGE FROM THE FLASH FLOODING DUE TO FLOODED HOUSES, WASHED-OUT BRIDGES, DAMAGED CULVERTS AND CANALS, DAMAGED ROADS, AND OTHER DAMAGE TO IRRIGATION WORKS AND UTILITY LINES RANGED FROM 500,000 TO MORE THAN 1 MILLION DOLLARS. RAINFALL AMOUNTS IN LESS THAN 24 HOURS INCLUDED 1.73 INCHES AT LOVELL, WHILE CONEY, DEAYER, AND FRANNIE RECEIVED 2.40, 1.60, AND 3.30 INCHES OF RAIN, RESPECTIVELY. MOST OF THE FLOOD DAMAGE OCCURRED IN PARK COUNTY, WHICH WAS LATER DECLARED A STATE DISASTER AREA. AT LEAST 17 BRIDGES OR CROSSINGS WERE DESTROYED AND 6 ROADS WASHED AWAY BY THE FLOOD WATERS IN PARK COUNTY.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1988

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
WYOMING									
WY002-005-006 012-016-017 NORTHERN AND SOUTHEAST WY	07	0300 TO 2000 MST			0	0	3	5	HIGH WIND
	<p>THE SAME STORM SYSTEM, RESPONSIBLE FOR THE FLASH FLOODING AND HEAVY SNOW, ALSO CAUSED STRONG WINDS TO RAKE MUCH OF WY. WESTERLY BORA WINDS BUFFETED THE LEE SIDES OF THE ABSAROKAS AND BIG HORN MOUNTAINS OF NORTHERN WY ON THE 7TH, WITH THE HARDEST HIT PART OF THE STATE BEING SOUTHEASTERN WY. DURING THE EARLY MORNING, CASPER CONSISTENTLY HAD WIND GUSTS TO NEAR 50 MPH, WHILE CODY HAD GUSTS TO 58 MPH. ALONG INTERSTATE 80 OVER SOUTHCENTRAL AND SOUTHEAST WY, WINDS WERE GUSTING GREATER THAN 65 MPH ABOVE 6000 FEET MSL. IN GENERAL, WEST TO NORTHWEST SUSTAINED WINDS OF 25 TO 40 MPH WITH GUSTS OVER 60 MPH SWEEP ACROSS SOUTHEAST WY ON THE MORNING OF THE 7TH. VEDAWOOD, 30 MILES WEST OF CHEYENNE, REPORTED WIND GUSTS GREATER THAN 80 MPH, WITH A 93 MPH WIND GUST OCCURRING AT 0740 MST. AT 0846 MST, THE CHEYENNE AIRPORT HAD A PEAK WIND GUST OF 87 MPH. DURING THE AFTERNOON OF THE 7TH, THE AIRPORT AT LUSK HAD A PEAK WIND GUST OF 76 MPH. THESE STRONG WINDS DID NOT SUBSIDE UNTIL THE EVENING OF THE 7TH. THERE WAS CONSIDERABLE CROP AND SOME PROPERTY DAMAGE. AT LUSK, DAMAGE INCLUDED DOWNED TREES, 2 ALUMINUM CATTLE TANKS DESTROYED AND ROOFS TORN OFF OF STORAGE SHEDS. OVER EXTREME SOUTHEAST WY, THE WINDS CAUSED EXTENSIVE SOIL EROSION. FURTHERMORE, 4 TO 5 THOUSAND ACRES OF SUGAR BEETS WERE LOST, INCLUDING THE FIELDS AT WHEATLAND, TORRINGTON, AND LAGRANGE. OFFICIALS ESTIMATED REPLANTING COSTS TO BE ON THE ORDER OF 500,000 DOLLARS.</p>								
WY2017 SOUTHEAST PLAINS	08	0800 TO 1500 MST			0	0	0	0	HIGH WIND
	<p>AS THAT PESKY OLD DREEP AND INTENSE LOW PRESSURE AREA FROM THE 7TH MOVED EASTWARD THROUGH THE DAKOTAS, STRONG NORTHWEST WINDS WITH SUSTAINED SPEEDS OF 35 TO 45 MPH AND GUSTS OVER 55 MPH OCCURRED ACROSS THE SOUTHEAST CORNER OF WY ON THE 8TH. AT 0818 THE CHEYENNE AIRPORT HAD A PEAK WIND GUST AROUND 58 MPH. SUSTAINED WIND SPEEDS OF 38 TO 42 MPH WERE RECORDED AT THE CHEYENNE AIRPORT BETWEEN 1030 AND 1500 MST.</p>								
SWEETWATER CO ROCK SPRINGS CARBON CO RAWLINS	13	1930 MST			0	0	3	?	THUNDERSTORM WIND(54)
	13	1946 MST			0	0	?	?	THUNDERSTORM WIND(50)
	<p>A COLD FRONT MOVING THROUGH CENTRAL WY ON THE 13TH WAS GENERATING HIGH BASE THUNDERSTORMS. VERY STRONG, DAMAGING WINDS OCCURRED WITH THESE THUNDERSTORMS. AT ROCK SPRINGS, CONSIDERABLE ROOF DAMAGE ALONG WITH TREE AND POWER LINE DAMAGES WERE REPORTED EXTENSIVELY.</p>								
SUBLETTE CO	16	1145 MST			0	0	0	0	WIND
	<p>A THUNDERSTORM RUMBLED OVER SUBLETTE COUNTY AND PRODUCED WIND GUSTS TO 52 MPH AT THE BIG PINEY AIRPORT.</p>								
ALBANY CO	19	1830 TO 20 1400 MST			0	0	0	0	MINOR FLOODING
	<p>A DEVELOPING SURFACE LOW PRESSURE AREA WAS OVER SOUTHEAST CO ON THE 19TH WITH A STATIONARY FRONT EXTENDING FROM THIS LOW INTO SOUTHEAST ND. THIS LOW PRESSURE AREA AND ASSOCIATED FRONT MOVED FARTHER EAST ON THE 20TH AS A HIGH PRESSURE AREA BUILT IN BEHIND IT. THE STORM SYSTEM PRODUCED RAINFALL OVER SOUTHEAST WY FROM THE 18TH TO THE 20TH. BY 0800 MST ON THE 20TH, 2.50 INCHES OF RAIN FELL AT THE CHEYENNE AIRPORT WITH 1 TO 2 INCHES COMMON ELSEWHERE IN SOUTHEAST WY. EVEN SOME SNOW WAS REPORTED IN THE SNOWY MOUNTAIN RANGE WEST OF LARAMIE DURING THE EARLY MORNING OF THE 20TH. NO MAJOR FLOODING OCCURRED OVER ALBANY OR LARAMIE COUNTIES ON THE 20TH. WATER LEVELS WERE BANKFUL IN THE LARAMIE RIVER NEAR WOODS LANDING AND JELM ABOUT 25 MILES SOUTHWEST OF LARAMIE. SOME MINOR FLOODING OCCURRED TO ALBANY COUNTY ROADS NORTH OF LARAMIE ON THE 20TH DUE TO THE HEAVY RAINFALL.</p>								
WYOMING									
LARAMIE CO CHEYENNE	25	1224 MST			0	0	0	0	WIND
SWEETWATER CO 1W GRANGER	25	1230 TO 1235 MST			0	0	0	0	FUNNEL CLOUD
CARBON CO RAWLINS	25	1332 MST			0	0	0	0	WIND
SWEETWATER CO 1N GRANGER	25	1340 MST			0	0	0	0	THUNDERSTORM WIND(52)
LARAMIE CO 25NE CHEYENNE	25	1600 MST			0	0	0	0	SMALL HAIL
	<p>SCATTERED THUNDERSTORMS DEVELOPED ACROSS SOUTHEAST WY. MANY OF THESE THUNDERSTORMS WERE ASSOCIATED WITH WIND GUSTS OF 45 TO 50 MPH WITH NEAR HALF-INCH DIAMETER HAIL. A SEVERE THUNDERSTORM DEVELOPED WEST OF ROCK SPRINGS AND MOVED TO THE NORTHEAST. AROUND 1230 MST A FUNNEL CLOUD WAS SPOTTED ABOUT 40 MILES WEST OF ROCK SPRINGS NEAR THE TOWN OF GRANGER. LATER DURING THAT AFTERNOON, WIND GUSTS AROUND 60 MPH WERE CLOCKED WITH A THUNDERSTORM NORTH OF GRANGER.</p>								
WY2001 NORTHWEST MOUNTAINS	24	2230 TO 25 1530 MST			0	0	0	0	SNOW
	<p>A STRONG COLD FRONT MOVED THROUGH WY ON THE 25TH. INITIALLY, AS THIS COLD FRONT PASSED THROUGH YELLOWSTONE NATIONAL PARK IN NORTHWEST WY, HEAVY SNOW AND SMALL HAIL OCCURRED. BY 0830 MST ON THE 25TH, THE RAIN HAD CHANGED TO SNOW WITH 2 TO 3 INCHES OF NEW SNOW RECORDED AT CRAIG PASS ABOVE 9000 FEET. LATER THAT DAY, AT 1300 MST, REPORTS FROM YELLOWSTONE PARK SHOWED 4 TO 6 INCHES HAD ACCUMULATED OVER THESE HIGHER MOUNTAIN PASSES.</p>								
49 ALASKA, Northern ————— NO REPORT RECEIVED									
49 ALASKA, Southern									
ALASKA PENINSULA	3	1600AST			0	0	0	0	High Winds
	<p>A storm in the Aleutians produced gusts to 55 mph over the Alaska Peninsula.</p>								
SOUTHWEST	23	1800 AST			0	0	5	0	Flooding
	<p>Minor flooding occurred along the Kuskokwim River below the town of Bethel due to ice melt/jamming along the river.</p>								
49 ALASKA, Southeastern ————— NONE REPORTED									
50 HAWAII ————— NONE REPORTED									
51 PUERTO RICO									
North Central Section	9-11				1		1		Flash Flooding
	<p>A nearly stationary front along with diurnal heating caused heavy rains over the Northern Coastal areas of Puerto Rico from Monday, May 9 to Wednesday, May 11, 1988. Particularly affected was the North Central area where heavy thunderstorms developed late Tuesday afternoon and continued into the evening. These heavy downpours caused the Rio Cibuco to overflow its banks, flooding the town of Vega Alta downstream. A 34-year old man was swept away on Tuesday night around 9:20 P.M. LST by the rising waters of Rio Cibuco and his body was found the next morning. Up to two hundred and seventy-five (275) homes were affected. A flash flood warning was in effect for the Rio Cibuco Basin at the time this happened. Up to fifteen (15) inches of rain fell in the Northern Central slopes while 6 to 10 inches fell along the North Coastal areas. M340.</p>								
52 VIRGIN ISLANDS ————— NONE REPORTED									
53 PACIFIC ————— NONE REPORTED									

STORM SUMMARY

MAY 1988

TYPE	ALABAMA	ARIZONA	ARKANSAS	CALIFORNIA	COLORADO	CONNECTICUT	DELAWARE	FLORIDA	GEORGIA	IDAHO	ILLINOIS	INDIANA	IOWA	KANSAS	KENTUCKY	LOUISIANA	MAINE	MARYLAND & DC	MASSACHUSETTS	MICHIGAN	MINNESOTA	MISSISSIPPI	MISSOURI	MONTANA	NEBRASKA	NEVADA	NEW HAMPSHIRE	
TORNADOES																												
Number	3	1	7					5	1		10		25	9	1	6												
Days	3	1	3					4	1		1		3	3	1	1												
Deaths	0	0	0					0	0		0		0	0	0	0												
Injuries	0	0	0					0	0		6		0	0	15	1												
Property Damage	5	5	5					6	3		6		7	5	7	6												
Crop Damage	?	0	0					0	3		4		5	0	0	?												
HAIL																												
Deaths	0	0						0	0		0	0	0	0	0	0		0										0
Injuries	0	0						0	0		0	0	0	0	0	0		0									0	
Property Damage	5	?						4	5		4	?	7	3	?	7		4									?	
Crop Damage	?	?						4	7		4	?	6	4	?	?		?									0	
THUNDERSTORM WINDS																												
Deaths	0	0	0					0	1	0	?	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	
Injuries	0	0	?					0	0	0	?	0	1	0	0	0		0	0	0	0	1	0	0	2	0	0	
Property Damage	5	?	4					5	6	3	6	4	6	4	5	5		4	5	4	4	?	5	5	6	2	5	
Crop Damage	0	?	0					0	5	0	0	?	5	0	0	?		?	0	0	0	?	0	0	3	0	0	
HIGH WINDS																												
Deaths		0		0							0	0		0													0	0
Injuries		0		1							0	0		0													0	0
Property Damage		4		6							?	?		2													5	4
Crop Damage		0		6							0	?		0													3	0
LIGHTNING																												
Deaths				0	0	0		0	2				0	1	0	0	0	0	0		0	0	0				0	0
Injuries				0	1	4		0	3				0	3	0	0	1				0	0	0				0	0
Property Damage				5	5	0		5	6				5	5	5	5	0				4	4					6	5
Crop Damage				0	0	0		0	0				0	0	0	0	0				0	0					2	0
FLASH FLOODS																												
Deaths														0	0	0											0	0
Injuries														0	0	0											0	0
Property Damage														4	3	4											5	5
Crop Damage														0	0	?											3	0
FLOODS																												
Deaths								0																			0	0
Injuries								0																			0	0
Property Damage								3																			4	0
Crop Damage								2																			0	0
HEAVY SNOWSTORMS AND BLIZZARDS @																												
Deaths																											0	0
Injuries																											0	0
Property Damage																											5	0
Crop Damage																											0	0
ICE STORMS #																												
Deaths																												
Injuries																												
Property Damage																												
Crop Damage																												
HURRICANES AND TROPICAL STORMS																												
Deaths																												
Injuries																												
Property Damage																												
Crop Damage																												
ALL OTHERS																												
Deaths			3	0															0									
Injuries			?	0															0									
Property Damage			5	4															6									
Crop Damage			0	5															0									

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM SUMMARY

MAY 1988

TYPE	NEW JERSEY	NEW MEXICO	NEW YORK	NORTH CAROLINA	NORTH DAKOTA	OHIO	OKLAHOMA	OREGON	PENNSYLVANIA	RHODE ISLAND	SOUTH CAROLINA	SOUTH DAKOTA	TENNESSEE	TEXAS	UTAH	VERMONT	VIRGINIA	WASHINGTON	WEST VIRGINIA	WISCONSIN	WYOMING	ALASKA	HAWAII	PACIFIC	PUERTO RICO	VIRGIN ISLANDS	NATIONAL DEATH & INJURY TOTALS		
TORNADOES																													
Number	1	4	2	2			1				1	1	2	7	1					24	3					0			
Days	1	2	2	2			1				1	1	2	4	1					1	1								
Deaths	0	0	0	0			0				0	0	0	0	0					0	0							3	
Injuries	0	1	0	0			0				0	0	0	0	0					4	2							31	
Property Damage	0	5	4	4			4				0	0	4	3	3					6	6								
Crop Damage	0	?	0	0			?				2	0	0	0	0					?	?								
HAIL																													
Deaths	0	0	0	0		0	0		0		0	0	0	0			0		0	0	0							0	
Injuries	0	0	0	0		0	1		0		0	0	0	0			0		0	0	0							1	
Property Damage	?	?	4	4	4	?	7		0		5	3	4	5			6		?	?	4								
Crop Damage	?	?	5	5	4	0	?		?		6	?	3	5			5		?	?	?								
THUNDERSTORM WINDS																													
Deaths	0		0	0		0	0		0		0	0	0	0			0		0	0	0							1	
Injuries	0		0	3	0	2	0		0		2	2	0	0			0		0	0	2							22?	
Property Damage	3		5	5	5	6	6		4		4	4	4	5			6		?	?	6								
Crop Damage	?		2	0	5	0	?	0	?		0	0	0	5			3		?	?	?								
HIGH WINDS																													
Deaths		0	1		0																								1
Injuries		0	7		0																								8
Property Damage		?	5		?							4					4												
Crop Damage		?	4		?							0					0												
LIGHTNING																													
Deaths	1	1	2			1	0		1		0	0	0	0			0												9
Injuries	0	0	1			0	0		13		0	0	0	0			0												22
Property Damage	?	5	5			5	4		5		4	4	3	4			3												
Crop Damage	0	0	0			0	?		0		0	0	0	0			0												
FLASH FLOODS																													
Deaths	1	0												1	0		0												3
Injuries	?	0												0	0		0												?
Property Damage	?	5												5	4		3												
Crop Damage	6	?							4		0			6	0		0				6								
FLOODS																													
Deaths			0																										
Injuries			0																										
Property Damage			3																										
Crop Damage			0																										
HEAVY SNOWSTORMS AND BLIZZARDS @																													
Deaths																													
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HURRICANES AND TROPICAL STORMS																													
Deaths																													
Injuries																													
Property Damage																													
Crop Damage																													
ALL OTHERS																													
Deaths		0		0		0																							3
Injuries		0		0		0																							?
Property Damage		0		?		?																							
Crop Damage		6		?		?																							

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM DAMAGE CATAGORIES

REFERENCE NOTES

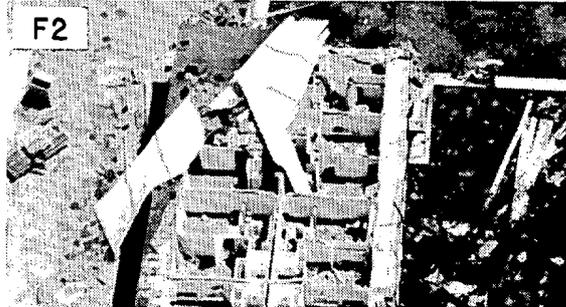
- 1 Less than \$50
- 2 \$50 to \$500
- 3 \$500 to \$5,000
- 4 \$5,000 to \$50,000
- 5 \$50,000 to \$500,000
- 6 \$500,000 to \$5 Million
- 7 \$5 Million to \$50 Million
- 8 \$50 Million to \$500 Million
- 9 \$500 Million to \$5 Billion

- 0/Blank None reported.
- * Miles instead of yards.
- ** Yards instead of miles.
- @ Includes heavy sleet storm.
- # Freezing drizzle and freezing rain, commonly known as glaze.
- ≠ Report incomplete.
- ≠≠ Report not received.
- o/c Indicates Crop Damage amount is included in the value given for property damage.

When reports are not received or are incomplete, the Storm Summary National Death and Injury totals may also be incomplete.

Definition of Fujita Tornado Scale (F scale)

(F0) Gale tornado (40-72 mph): Light damage
Some damage to chimneys; break branches off trees; push over shallow-rooted trees; damage sign boards.



(F1) Moderate tornado (73-112 mph): Moderate damage
The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads.



(F2) Significant tornado (113-157 mph): Considerable damage
Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.

(F3) Severe tornado (158-206 mph): Severe damage
Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.



(F4) Devastating tornado (207-260 mph): Devastating damage
Well-constructed houses leveled; structure with weak foundation blown off some distance; cars thrown and large missiles generated.

(F5) Incredible tornado (261-318 mph): Incredible damage
Strong frame houses lifted off foundations and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 m; trees debarked; incredible phenomena will occur.

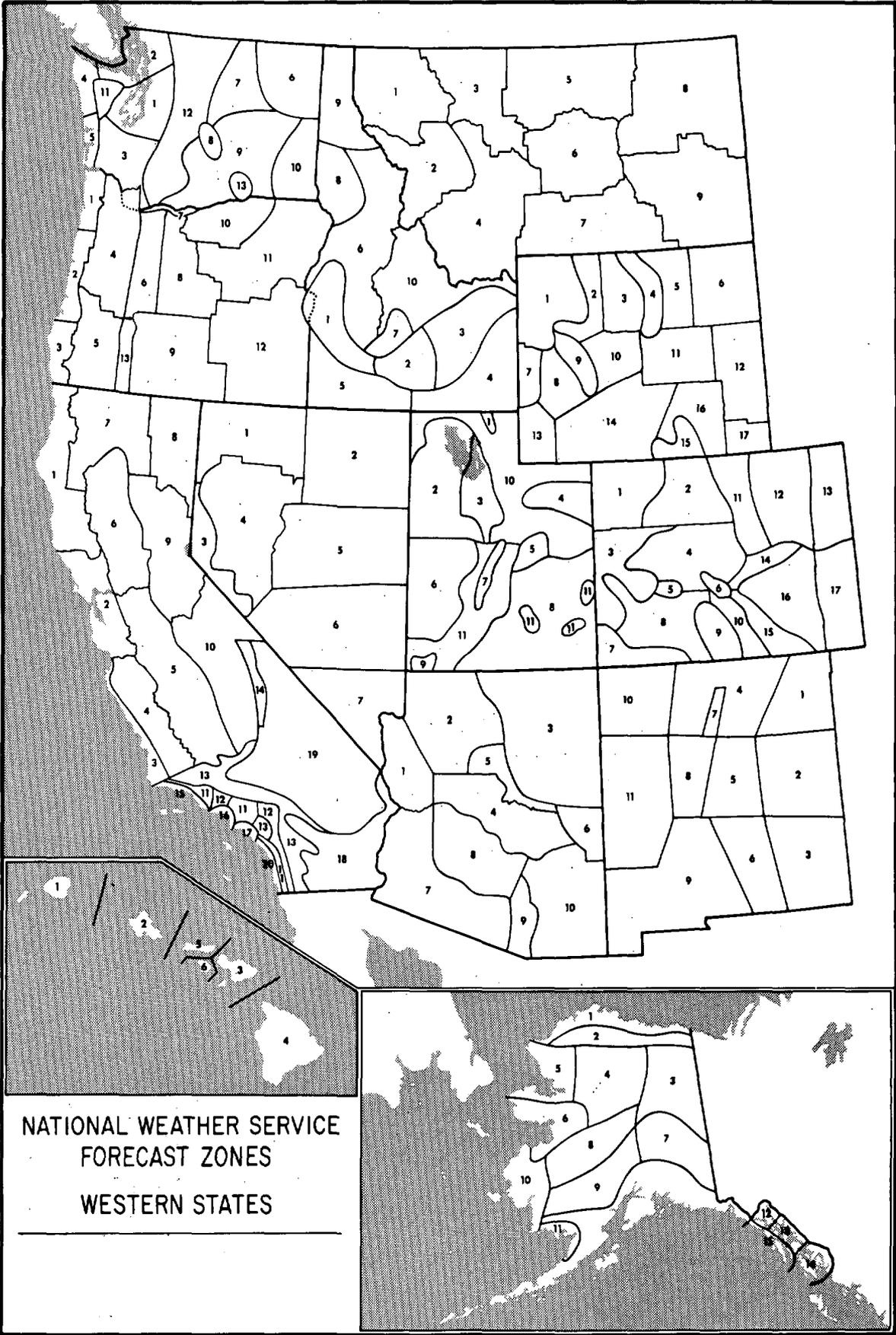


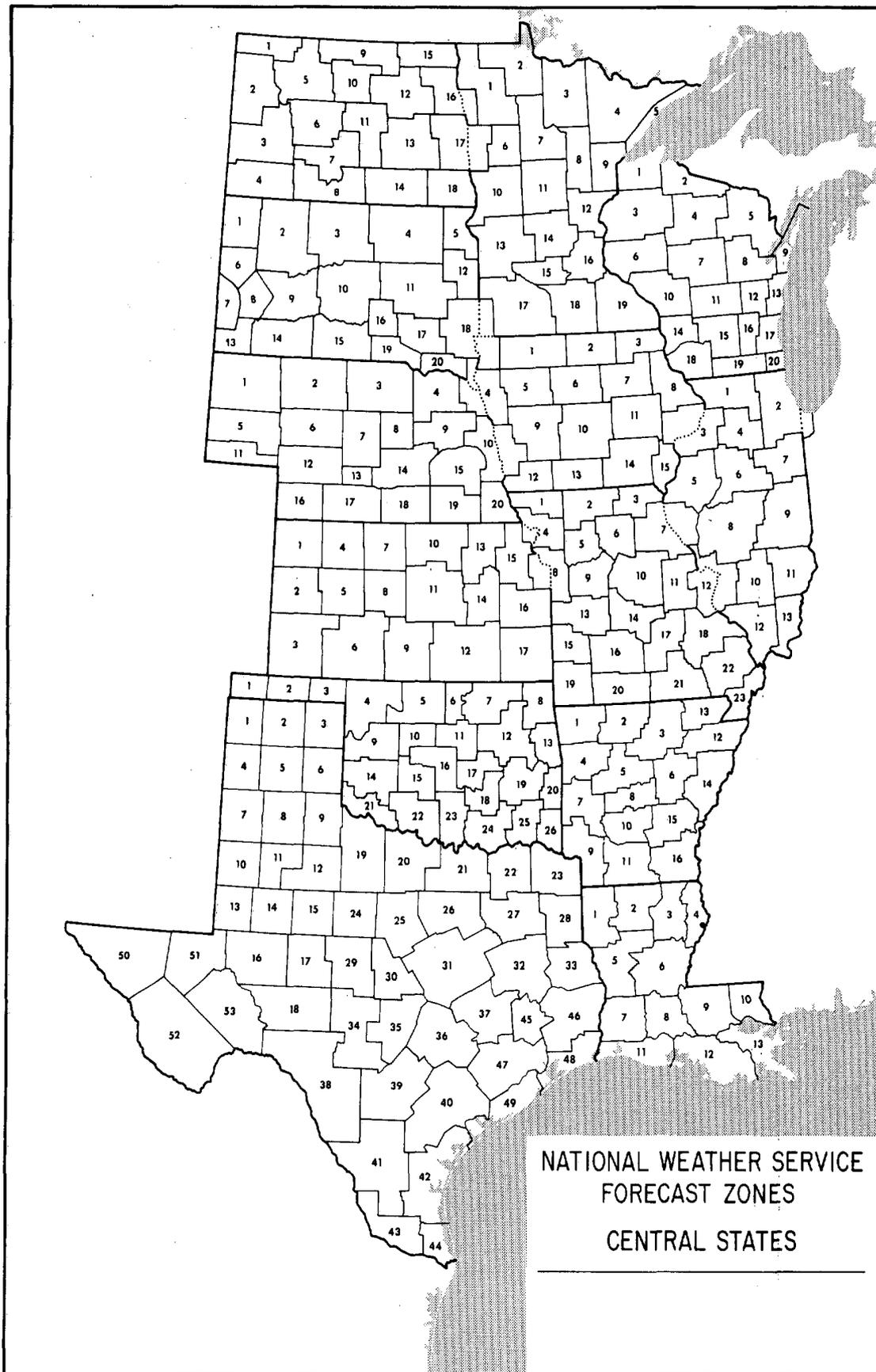
(F6-F12) (319 mph to Mach 1, the speed of sound):
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

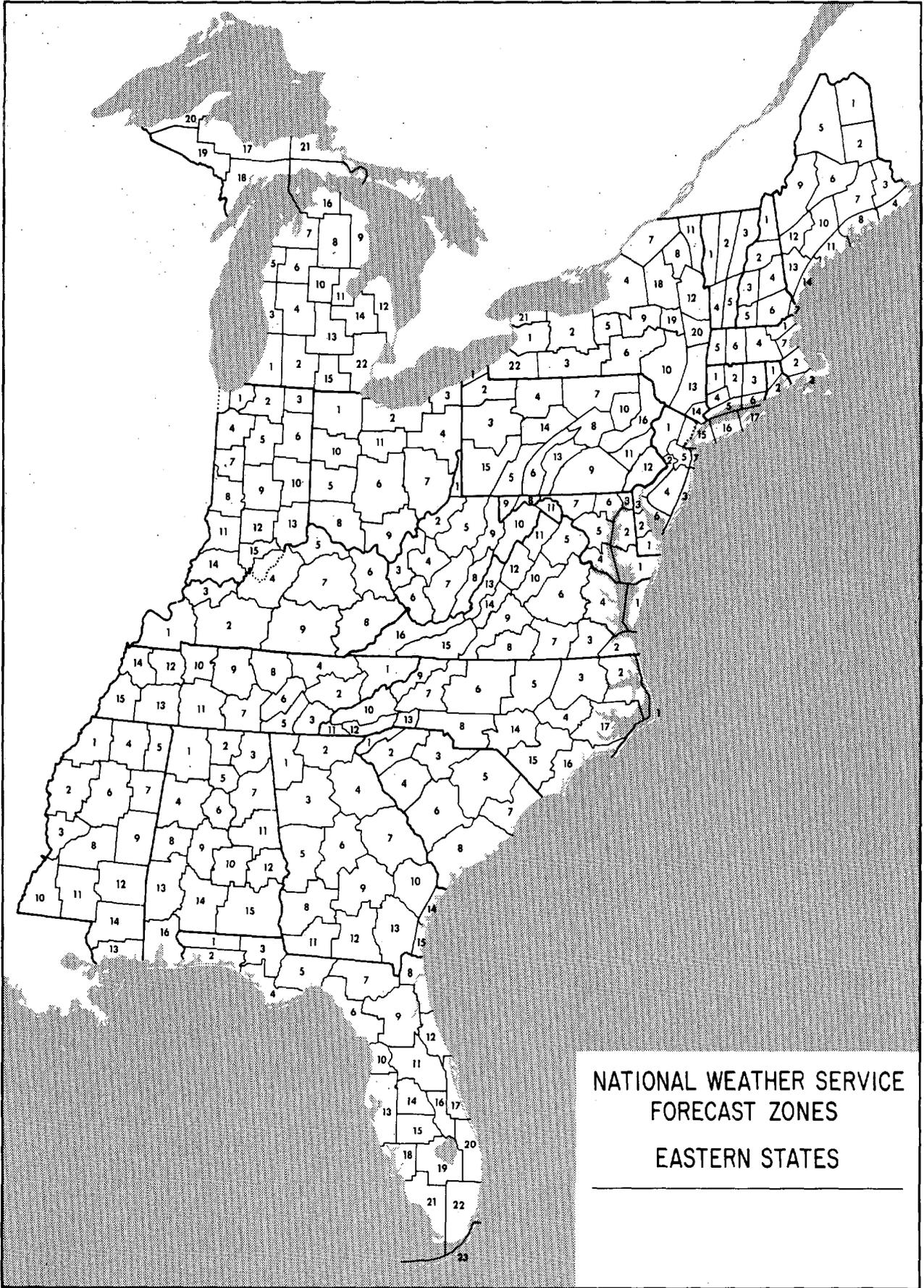
(F0+F1) Weak Tornado
(F2+F3) Strong Tornado
(F4+F5) Violent Tornado

From J. Atmos. Sci., August 1981, p. 1517-1519

USCOMM-NOAA-ASHEVILLE, N.C. 1988-2000







NATIONAL WEATHER SERVICE
FORECAST ZONES
EASTERN STATES

CLIMATOLOGICAL DATA is a unique source of weather information derived from data collected by over 8,000 cooperative weather observers located throughout the United States, Puerto Rico, the Virgin Islands, and U. S. Pacific Islands. It is published monthly, with an Annual Summary, for each State or combination of States/Areas by the National Climatic Data Center, Asheville, North Carolina.

* **MONTHLY** editions contain:

- Temperature and precipitation extremes and summarized data.
- Daily precipitation, maximum and minimum temperatures, snowfall, soil temperatures, and evaporation & wind.
- Graphical displays of various climatological features.
- Station indices and locator maps.
- Monthly totals of heating degree days and snowfall are published as seasonal tables in the July issue.

* **ANNUAL SUMMARY** contains monthly and annual:

- Total precipitation and departures from normal.
- Average temperatures and departures from normal.
- Temperature extremes and freeze data.
- Soil temperatures.
- Total evaporation and wind movement.
- Monthly and seasonal cooling degree days.
- Graphical displays of various climatological features.
- Station indices and locator maps.

SHELF STOCK of the printed publication is maintained only for the most recent three years. Earlier years are available on microfiche or as paper copies reproduced from microfiche. The data are also available in digital form - on magnetic tape or diskette.



NATIONAL CLIMATIC DATA CENTER

CLIMATOLOGICAL DATA ANNUAL SUMMARY PENNSYLVANIA 1987

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THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC DATA CENTER.

DIRECTOR

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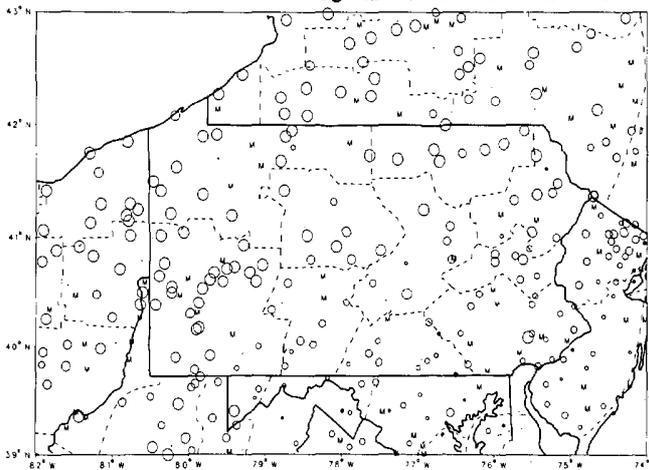


ISSN 0364-5843

CLIMATOLOGICAL DATA PENNSYLVANIA JANUARY 1988 VOLUME 93 NUMBER 1

MONTHLY PRECIPITATION DEPARTURE FROM
INDIVIDUAL STATION NORMALS (1951-1980)

- M INCOMPLETE DATA FOR THE MONTH
- EXACTLY NORMAL
- 5, 10, 20... 50% OR MORE BELOW NORMAL
- 10, 20, 40... 100% OR MORE ABOVE NORMAL



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC DATA CENTER.

Russell D. Watson

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

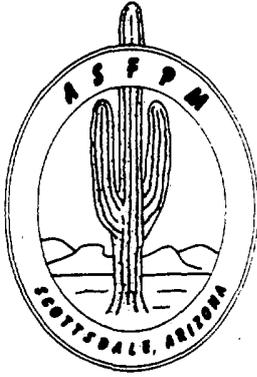
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Association of State Floodplain Managers 13th Annual Conference



Scottsdale, Arizona
May 22-25, 1989

PARTNERSHIPS: Effective Flood Hazard Management

Most effective efforts involve **Partnerships**. The formulation and functioning of these partnerships are important to understand in order to build good relationships for better projects with the best results. This year's conference theme focuses on the effectiveness of networking and partnerships to create and implement solutions, programs, and projects to reduce flooding hazards and damages.

ABOUT THE CONFERENCE

The technical conference will be held Tuesday, Wednesday, and Thursday and will include a field trip in the Phoenix-Scottsdale area. The conference will feature one track of concurrent sessions dealing specifically with the floodplain management problems of the Arid West. The ASFP will conduct its committee and general membership meetings on Monday. All members and prospective members are invited to participate. A technical field trip including dinner is scheduled one evening. Optional field trips and spouse activities will be available.

REGISTRATION RATES

Registration prior to April 15, 1989 will be \$150 for members, \$165 for non-members, and \$65 for students and local government officials from the State of Arizona.

EXHIBIT SPACE

Exhibit space will be made available for a fee to individuals and organizations who wish to display a product or service to conference attendees. Information on exhibit space can be acquired from Susan Josheff, Exhibits Coordinator, at the address below.

ABOUT SCOTTSDALE

Scottsdale is noted throughout the country for its creative approach to city planning. Running the length of the City is the Indian Bend Wash Greenbelt, a 7.5 mile long flood control project that uses a system of parks, lakes, and golf courses as an alternative to a conventional concrete channel. This greenbelt offers endless recreational opportunities including fishing, sailing and other sports.

Scottsdale's quality lifestyle includes well-planned living, working and shopping areas, pleasant neighborhoods and residential areas protected from traffic and noise. The City's emphasis on mountain conservation and protection of its rich desert areas is reknown nationally. Scottsdale is also recognized for its architectural and landscape design excellence and rich cultural, business and recreational environments. The City is proud of its vital downtown areas. The ambiance of Scottsdale reflects a unique blend of traditional Western and modern living.

The conference will be held at the Wyndham Paradise Valley Resort in Scottsdale, Arizona. Conference room rates are \$53 single, and \$63 double. Paradise Valley Resort is an exceptional facility which showcases Scottsdale's best features.

CONFERENCE HOST: Arizona Department of Water Resources

CONFERENCE DIRECTOR

Jim Morris
Arizona Department
of Water Resources
15 S. 15th Avenue
Phoenix, Arizona 85007
(602) 255-1566

PROGRAM CHAIR

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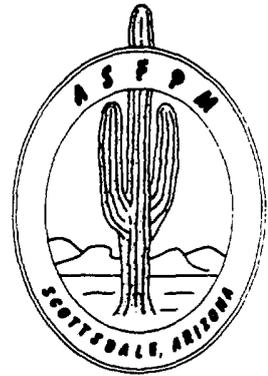
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Association of State Floodplain Managers 13th Annual Conference

Scottsdale, Arizona
May 22-25, 1989



PARTNERSHIPS: Effective Flood Hazard Management

The Association of State Floodplain Managers (ASFP) is a national organization. Its goal is the reduction of flood damages and hazards through sound floodplain management. Its members include representatives of local, state, and federal governments as well as those of the private and non-profit communities. The Association sponsors an annual conference on the state-of-the-art in flood damage and hazard reduction. Conference topics always span a broad spectrum of issues of interest to those involved in floodplain management, including the following:

- Effectively integrating watershed-wide floodplain management concerns with local planning and zoning.
- Status of "temporary taking" and other legal issues: what's happening in the courts?
- Case histories of communities under sanction for non-compliance with the NFIP.
- A decade of Section 406 Hazard Mitigation Planning: have we made progress?
- Reducing flood loss potential: what works?
- Do federal programs adequately address state and local needs?
- Multi-objective projects: what makes them successful?
- Improving flood prevention and awareness programs aimed at local officials and private property owners.
- How can we improve technical assistance to small communities?
- What's new and improved in the field of floodproofing?

* * * MORE INFORMATION INSIDE * * *

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